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*Henry*  
**SHERWIN'S)**  
**Mathematical Tables,**

Contriv'd after a most comprehensive METHOD:

CONTAINING,

Dr. *Wallis's* Account of Logarithms, Dr. *Halley's* and Mr. *Sharp's* Ways of constructing them; with Dr. *Newton's* contraction of *Briggs's* Logarithms;

V I Z.

A TABLE of Logarithms of the Numbers from 1 to 101000, with the means to find readily the Logarithm of any Number, and the Number of any Logarithm to seven places of Figures :

A N D

TABLES of natural and logarithmic Sines, Tangents, Secants, and Versed-sines, to every minute of the Quadrant :

WITH THE

EXPLICATION and USE prefix'd.

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The third EDITION.

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Carefully revised and corrected,

By **WILLIAM GARDINER**

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L O N D O N :

Printed for **WILLIAM MOUNT** and **THOMAS PAGE**  
at the *Postern* on *Tower-Hill*, M,DCC,XLII.

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To Mr. EDM. HALLEY, Savilian  
Professor of Geometry, in the Uni-  
versity of Oxford.

S I R,



I T being universally acknowledged that by the Learned Professors of Geometry in the SAVILIAN CHAIR, (viz. Mr. Briggs, Dr. Wallis, and Your Self) the *Logarithmical Art* hath receiv'd it's greatest Improvements, and the Use of those Numbers have by them been fully taught and divulged. 'Tis to You therefore, who succeed, and share equally with your famous Predecessors in the same honourable Post, (and in Memory of them) that I think my self bound in Justice to present these Collections.

Mr. Briggs, with excessive Patience, Calculated Thirty one *Cbiliads* of these Decimal *Logarithms*, to Fourteen Places, also the *Sines*, *Tangents*, *Secants*, with the *Logarithm Sines* and *Tangents*, and shewed their Construction and Use; of which Dr. Wallis gives a particular Account in the Twelfth Chapter of his *Algebra*, which is our Introduction.

A

Then

## The DEDICATION.

Then I return you your own Compendious and Facile Method of Constructing the *Logarithms*, with the Reverse of that Noble Problem : And indeed, setting aside what is Printed from Mr. *Briggs* above-mentioned, or Mr. *Abr. Sharp* (to whom the World is indebted for their Industry in this Kind ) the rest of the Discourses, both before and after the Tables, are either Written or Chosen by Your self ; therefore I expect your kind Acceptance, and remain,

S I R,

*Your very much Obliged*

*Humble Servant,*

*London, July 12, 1705.*

**Hen. Sherwin.**

**Mr.**

Mr. SHERWIN's

# P R E F A C E



*HERE the Construction and Use of the following Tables known to every Body, they should come forth into the World without any Introductory Discourse ; but as the Case stands, and that Knowledge is the share but of few, it may be proper to add something upon both those Heads : And what is here presented is gathered from the most Celebrated Authors that have Improved these Subjects amongst our selves, viz. Mr. Briggs, Dr. Wallis and Mr. Halley, the Three Professors of Geometry in the Savilian Chair at Oxford ; To lead the Reader on from the Beginning, we give him the 12th Chapter of Dr. Wallis's Algebra, which treats of the Original of Logarithms, and gives a full History of their Progress. To this is subjoyn'd Mr. Halley's Compendious Method of making Logarithms, which proceeds abstractedly from the Nature of Numbers without any regard to the Hyperbola ; from which is deduced for Practice the making of the Natural, and Mr. Briggs's : With the further Prosecution of the same Subject, generously Communicated by the ingenious and unwearied Mr. Abr. Sharp, with his Table of Logarithms to above Fifty Figures ; as also the Hyperbolic Logarithm of 10 to 80, and it's*

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# The P R E F A C E.

*Reciprocal, to 65. Then follows by the same Hand, the Construction of the Sines, Tangents and Secants; with the whole Process of the Quadrature of the Circle to 72 Figures: Which Quadrature was invented, and here demonstrated, by the above-mentioned Mr. Halley.*

*To come to the principal Part of the Performance; as to the Tables, we may venture to say (without Partiality) that we offer here a more compleat Set of them than can be found in any other Book now Extant, and doubt not, but upon careful Perusal, they will be found as Useful and Correct. The Method we observed in Printing the Logarithms is according to that Excellent Abbreviation of Dr. John Newton in his Trigonometria Britannica; to which is added, the Difference between each Logarithm, and the Proportional Parts, in the last Column of the same Page; by which the Logarithm of any Number (& contra) under 10,000,000 may be readily found, without turning to any other Page.*

*The manner of placing the Tables of natural Sines, Tangents and Secants, and their Logarithms, is absolutely New, and very Advantageous; for to each Logarithm in those Tables are placed the Differences which are common to the Column of Logarithms on both sides: By which the Seconds may be easily found. And for that End, between them and the Table of Logarithms, is placed a small Table to convert Sexagesimals into Decimals, and contrarily. \**

*The next and chief Thing considerable in the Tables, is their Correctness; and here we will give a*

\* In this third edition to be placed at the end of the Versed sines. *par-*

# The P R E F A C E.

*particular Account of the Measures we took to make them so. As for the Table of Logarithms it was examined from 1 to 20000 and from 90000 to 101000 by Mr. Briggs's Arith. Logar. Printed at London 1624, and from 1 to 100,000 by Adrian Vlacq's Table, Printed at Goudæ 1628. And to shew our Care herein, as well as for Publick Service, we here place a Table of the Errors we found (when correcting our own) in Mr. Briggs's and Vlacq's above-mentioned Canons; and because Vlacq's own Errata Table is found in few of his Books (in-  
somuch that Dr. Newton's above-mentioned Canon is printed with all his Errors) therefore we thought it necessary to give it here with our Additions. Where Note, that such of his Errors as we now found are marked with (a), and a single one in Mr. Briggs's with (b); and those which are common to Mr. Briggs and Vlacq are marked with (B).*

Num.	Logar.	Num.	Logar.	Num.	Logar.	Num.	Logar.	Num.	Logar.
80	B. 99870	5126	86018	9482	3.97689	15306	17090	45090	02353
169	67046	5194	19453	9705	02870	15843	74222	48376	a 499566
183	2.26245	5222	68675	9972	B 22698	16461	62149	49502	a 27458
238	69571	6197	14961	9973	B 58190	17509	B 13427	49717	a 49148
580	2.76342	6207	17454	10058	16313	17773	+24976	49880	64448
590	2.77085	6257	3.79636	10011	B 11490	17780	17566	56359	1 32786
968	2.98587	6841	95904	10096	93419	19009	92707	57766	2 476159
1239	B 13064	6941	20444	10292	B 97775	19107	25036	60400	69386
1298	B 46925	6957	B 1.84242	10847	96402	19113	88598	61999	a 479238
1309	96466	7775	3.89070	10859	98331	19195	81165	62090	a 16598
1321	28176	7830	3.89376	11003	11130	20832	a 431873	65160	10756
1354	86643	8077	B 00829	11332	65658	24862	a 60621	66759	a 482450
1359	94567	8556	3.93227	11440	B 60245	28423	+45366	67050	a 482639
1377	39493	8642	42628	11469	4.05952	33800	+52891	73653	a +86719
1626	B 05413	8692	97176	11920	4.07627	36560	61871	74832	a 73526
2167	a 89113	8832	90604	11955	95805	38780	78047	78700	47324
2434	a 05739	9174	3.96255	12328	25257	39844	a 4.60036	82122	93451
2534	B 66105	9176	3.9049	12398	16320	39845	a 4.60017	95066	b 4.98075
2544	71070	9182	3.96293	13274	18133	40598	4.60850	97105	a 15926
3329	37952	9317	3.96927	14020	80136	41018	a 448071	97328	a 499046
3492	39425	9354	73656	14527	59365	41490	a 34348	99090	B 98284
4599	34096	9429	3.97446	14763	45198	42506	a 02379	99910	89590
+906	75439	9480	3.97680	14786	B 07019	44656	a 98191	100008	a 47422

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# The P R E F A C E.

*The Tables of Natural Sines, Tangents and Secants were examined by those of Van Schooten, Printed at Amsterdam 1627 (which are said to be without one Fault) and Sir Jonas Moor's new System; the Tables of Logarithmic Sines, Tangents and Secants were examined by a Table of the said Vlacq, in large Octavo, Printed at Goudæ 1626, as also by the said System. And in all these Examinations there were never less than Two to barken, whilst One read over the printed Sheet to be Corrected.*

*The Table of Versed Sines was printed from, and also examined by that in Sir Jonas Moor's System.*

*The Traverse Table is new Calculated to a larger Radius than any Extant, and was examined with the greatest Care.*

*After the Tables follow the various Uses of Logarithms made plain to the meanest Capacity; to which is added, the Solution of Plain and Spherical Trigonometry by Logarithms, from Mr. Briggs's English Edition of his Logarithmical Arithmetic; and the Use of the [natural] Versed Sines from Sir Jonas Moor's System.*

*The demonstration of compound Interest, with some Propositions of Navigation, were both of them bestowed by Mr. Halley, and revised by him; as were most of the Sheets of the whole Discourse: wherein he was pleased to make many advantageous Alterations, for which I return him my hearty Thanks.*

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## ADVERTISEMENT.

**A**T the desire of the Proprietors of this Book, I have examined, and corrected the Table of the Logarithms of Numbers in this third edition, with great care: The Tables of Sines, Tangents, Secants and Versed-sines, both natural and logarithmical, are here made so perfect, as to be the nearest truth possible in their lowest place, and are titled and disposed in a more commodious manner than they were before: The Versed-sines being anew computed, the natural from the Sines in *Rhaticus's* great Canon, and the logarithmic from the log. sines in *Vlacq's*, where each is carried three places lower: The Traverse Table, for the use of Navigation, I have put into a more convenient form, and added new chapters of their use.

The explication and use of the Tables are here put at the beginning of the Book, where the doctrine of decimal fractions is distinctly treated of, and the method of finding by the Tables, the logarithms of given numbers, and the numbers of given logarithms; with their use in multiplying, dividing, raising powers, extracting roots, and in compound interest; also the method of finding the sine, co-sine, tangent, co-tangent, secant, co-secant, and versed-sine of a given number of degrees, minutes, seconds, and thirds, and the contrary; with the several Cases of Trigonometry, and some useful Propositions in Navigation. Here I have made some alterations, and additions, particularly the 5th, 8th and 9th chapters. Then follows what Mr. *Sherwin* had prefix'd to the Tables in the former editions; viz. Dr. *Wallis's* discourse of the invention and use of logarithms; Dr. *Halley's* method of constructing logarithms; Mr. *Sharp's* methods of making logarithms, natural sines, tangents, and secants; with Dr. *Halley's* and Mr. *Sharp's* computations

tations of the Quadrature of the Circle. To this I have added, Mr. *Machin's* proportion of the diameter of a circle to it's circumference, to 100 places of figures: Mr. *Sharp's* table of the logarithms of all the integer numbers under 100, and of all the prime numbers under 1100, to 61 places of figures; with their use, in finding the logarithm of any number, and the number of any logarithm to as many places: Whereunto are adjoin'd, the logarithms of 41 numbers from 999980 to 1000020 inclusive, to 61 places, with their 1st, 2d, 3d and 4th differences to 30 places; which may be of use for the more easy finding the logarithm of any number to 30 places, and the number of any logarithm to 20 places, by the 1st and 2d differences only.

*WILLIAM GARDINER.*

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 Estates survey'd, and plotted, in the most  
 exact manner hitherto used,

By **WILLIAM GARDINER,**  
 in *Green Arbour Court near St. Sepul-*  
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**Mathe-**



# Mathematical T A B L E S.

## C H A P. I.

### *Of Decimal FRACTIONS.*

**I.**  **HE** Nature of a *Decimal Fraction* may be conceiv'd, by imagining a Foot-rule (or any other Measure) to be divided into ten equal parts; then each part is  $\frac{1}{10}$ ; and if every one of those parts be divided into ten equal parts, the Foot (or other Measure) will be divided into 100 equal parts; thus every part of the first division is  $\frac{1}{10}$ , or  $\frac{1}{100}$ ; and every part of the second division, in respect of the whole, will be  $\frac{1}{100}$ : After this manner we may conceive a Foot, a Yard, an Acre, an Hour, a Bushel, a Pound, a Shilling, &c. to be divided into 10, 100, 1000, 10000, &c. equal parts, at pleasure.

**II.** In *Decimal Fractions*; the Figures express'd is the numerator, and the denominator is omitted; because known to be always an unit, with so many cyphers as there are places in the numerator: Also a *Decimal Fraction* is distinguish'd from an Integer by a point prefix'd, as .2 for  $\frac{2}{10}$ , .34 for  $\frac{34}{100}$ , .567 for  $\frac{567}{1000}$ , .0089 for  $\frac{89}{10000}$ , &c.

Observe the same in mixt numbers, as, 678.9 for  $678\frac{9}{10}$ , 67.89 for  $67\frac{89}{100}$ , 6.789 for  $6\frac{789}{1000}$ , &c.

**III.** *Cyphers* at the right hand of a *Decimal Fraction* alter not it's value; for .5 or .50, or .50000, is each of them of the same value equal to  $\frac{1}{2}$  or  $\frac{1}{2}$ : But *Cyphers* at the left hand in a *Decimal Fraction* decrease the value in a tenfold proportion; for .05 is  $\frac{1}{20}$ , .005 is  $\frac{1}{200}$ , .0005 is  $\frac{1}{2000}$ , &c.

**IV.** *Decimal Fractions* are easily reduced to a common denominator, by making (or even supposing) all of them to consist of the same number of places; so .3, .45, .067, .0089, may be wrote thus,

A

thus,

thus, .3000, .4500, .0670, .0089; all which consisting of four places, their common denominator is an unit with four cyphers, viz. 10000.

V. *Addition and Subtraction* are the same as in whole numbers, when the places of the same denomination are set under one another: As in the following Examples.

Addition.			Subtraction.		
0.3	1.5	121.5	9.75	6.5	89
0.45	0.5625	45.5605	8.5	3.75	73.497
0.06789	0.9375	75.9375	1.25	2.75	15.503
0.81789	3.0000	242.9980			

VI. *In Multiplication*, the work is the same as in whole numbers, only in the product separate with a point so many figures to the right hand as there are fraction places both in the multiplicand and multiplier, then all the figures on the left hand of the point make a whole number, and those on the right a Decimal Fraction.

N. B. If there be not so many figures in the product, as ought to be separated by the preceding Rule, then place cyphers at the left to complet the number, as may be seen in the sixth and seventh Examples.

Ex. 1.	456	Ex. 2.	45.6	Ex. 4.	45.6	Ex. 6.	0.456
	21.3		21.3		0.213		0.213
	1368		971.28		9.7128		0.097128
	456	Ex. 3.	456	Ex. 5.	0.456	Ex. 7.	0.0456
	912		0.213		2.13		0.213
	9712.8		97.128		0.97128		0.0097128

VII. *In Division*; work as in whole numbers, only in the quotient separate with a point so many figures to the right hand (for a Decimal Fraction) as there are fraction places in the dividend more than in the divisor; because there must be but so many fraction places in the divisor and quotient together, as there are in the dividend.

Or the Places of the quotient may be known as soon as the operation is begun; by setting the divisor, or it's first multiple, under the first figures of the dividend exceeding it; then will the units place in the divisor, or it's multiple, stand under such a place in the dividend, as the first significant figure of the quotient is to have,

have, as in the first and last Examples below, here also inserted for illustration: In the *First*, here 5 (the units place in the divisor 2025 multiplied by 3) stands under 8 the hundreds place in the dividend, therefore 3 the first figure of the quotient will be hundreds; so there will be three integer, and two fraction places in the quotient: In the *Last*, here the units place in the divisor's multiple .023489000(.034798 comes under 2 in the dividend, which is 2.025 in the second place of the fraction; therefore 3 the first significant figure of the quotient will be the same, and a cypher must be prefix'd, as directed in the note on Multiplication: Also when in the operation the units place of the divisor is set under the units place in the dividend, it gives the units place in the quotient, and whatsoever shall come into the quotient beyond, must be separated for a Decimal Fraction.

Therefore, if the divisor be a whole Number, the quotient will have the same number of fraction places as the dividend, as *Ex. 1.* If the dividend consists of six decimal places, and the divisor but of two, there will be four decimal places in the quotient, as *Ex. 3.*

If there be more decimal places in the dividend, than are in the divisor and quotient together, place cyphers at the left hand of the quotient, to compleat the number, as *Ex. 5.* where one cypher is prefix'd.

Annex what number of cyphers you please to the right hand of the dividend; (see Rule 3) but if the dividend be made to have *Divisor* *Dividend* *Quotient* three fraction places more than are 675). 234890 00 ( 347.98 in the divisor, there will be three 67.5) 2348.9080 ( 34.798 such places in the quotient, which, 6.75) 23.489000 ( 3.4798 in most cases is sufficient, except it 675) .23489000 ( .34798 is to be multiplied afterwards. .675) .023489000 (.034798

VIII. *Vulgar Fractions are reduced to Decimals of the same value, by dividing the Numerator by the Denominator.*

*Example,* What Decimal part of 1*l.* Sterling is 9*d.* or  $\frac{9}{12}$  of 1*l.*? Answer, 0.0375*l.* Thus 240)9.0000(0.0375*l.*

*Note,* Because Money is valued in Pounds and parts of a Pound, and Time in Years and parts of a Year, it is often convenient to reduce those parts into Decimals; then the work is the same as in whole numbers, for which purpose these two Decimal Tables are inserted.

*A T A B L E of the Decimal parts of 1l.*

q.	Decimals.	s.	od	3d.	6d.	9d.	s.	cd	3d.	6d.	9d.
1	.00104167	0	decim	.0125	.025	.0375	10	.5	.5125	.525	.5375
2	.00208333	1	05	.0625	.075	.0875	11	.55	.5625	.575	.5875
3	.003125	2	.1	.1125	.125	.1375	12	.6	.6125	.625	.6375
1d.	.00416667	3	.15	.1625	.175	.1875	13	.65	.6625	.675	.6875
1	.00520833	4	.2	.2125	.225	.2375	14	.7	.7125	.725	.7375
2	.00625										
3	.00729167	5	.25	.2625	.275	.2875	15	.75	.7625	.775	.7875
2d.	.00833333	6	.3	.3125	.325	.3375	16	.8	.8125	.825	.8375
1	.009375	7	.35	.3625	.375	.3875	17	.85	.8625	.875	.8875
2	.01041667	8	.4	.4125	.425	.4375	18	.9	.9125	.925	.9375
3	.01145833	9	.45	.4625	.475	.4875	19	.95	.9625	.975	.9875

The Decimal parts of 1l. may be valued by the preceding Table, or to three places at sight, viz. the first figure doubled is shillings, the second and third joyn'd are farthings, abating one for every 25, for .025 is 6d. .050 is 1s. and .075 is 18d.

*A T A B L E of the Decimal parts of a Year, or of 365 Days.*

Days	10	20	30	40	50	60	70	80	90	Days	
Decim	.027397	.054795	.082192	.109589	.136986	.164384	.191781	.219178	.246575		
1	.002740	.030137	.057534	.084932	.112329	.139726	.167123	.194521	.221918	1	
2	.005479	.032877	.060274	.087671	.115068	.142466	.169863	.197260	.224658	2	
3	.008219	.035616	.063014	.090411	.117808	.145205	.172603	.200000	.227397	3	
4	.010959	.038356	.065753	.093151	.120548	.147945	.175342	.202740	.230137	4	
5	.013699	.041096	.068493	.095890	.123288	.150685	.178082	.205479	.232877	5	
6	.016438	.043835	.071233	.098630	.126027	.153425	.180822	.208219	.235616	6	
7	.019178	.046575	.073973	.101370	.128767	.156164	.183562	.210959	.238356	7	
8	.021918	.049315	.076712	.104110	.131507	.158904	.186301	.213698	.241096	8	
9	.024658	.052055	.079452	.106849	.134247	.161644	.189041	.216438	.243836	9	
Months	1	2	3	4	5	6	7	8	9	10	11
Decim	.083333	.166667	.25	.333333	.416667	.5	.583333	.666667	.75	.833333	.916667

*Note,* That the Decimals in every column after the first, begin with the Decimal of an even ten days, and increase downwards by one day each, so the Decimal of 20 days is 0.54795, and of 21 is .057534; and if these are moved one place to the left hand, they will be the Decimals of 200, and 210 days, and so of the rest.

## C H A P. II.

*Of finding the Logarithm of a given Number, or the Number to a given Logarithm.**I. To find the Logarithm of a whole Number under 1000.*

**I**N the first four pages of the Table of the Logarithms of Numbers, are placed all numbers from 1 to 999, in their common order, and against every number it's Logarithm; so the Log. of 43 is 1.6334685.

*Note,* The Index, or Characteristic, of the Logarithm of every integer number consisting of one figure is 0, of two figures 1, of three figures 2, of four figures 3, of five figures 4, &c. equal to the number of places that it's first figure is distant from the place of units; and altho', to the Logarithm of every number in the Table above 100, the Indices are omitted, yet in the operation, they must be prefix'd according to this remark: So the Log. of 430 is 2.6334685, and the Log. of 999 is 2.9995655; and so of the rest: But the Index of the Logarithm of a Decimal fraction is negative, tho' still equal to the distance of the first significant figure of it's number from the units place, as before; so that if the first significant figure be in the first place, the Index of the Logarithm is  $-1$ , or the complement thereof to 10, or 100, *viz.* 9, or 99, as hereafter; if in the second place, the Index is  $-2$ , or else 8, or 98; if in the third place  $-3$ , or else 7, or 97; if in the fourth place,  $-4$ , or else 6, or 96, &c.

*II. To find the Logarithm of a Number, consisting of four places.*

In the first column (sign'd Num.) of some one of the pages of the Table after the first four, find the Number given, and even with it in the second column (sign'd 0) is found the Logarithm sought, to which 3 (the proper Index) must be prefix'd; as may be seen in the adjoining Examples.

Num.	Logarithms.
1000	is 3.0000000
1004	is 3.0017337
9959	is 3.9982157
9999	is 3.9999566

*III. To find the Logarithm of a Number, consisting of five places.*

Find the first four figures of the Number in the first column, and even therewith (in the column sign'd by the last figure of the Number) is the last four figures of the Logarithm, which adjoin'd to the first three common figures in the second column, makes up the Logarithm sought, when 4 the proper Index is prefix'd.

*Example.*

*Example.* Given the Number 54237 to find it's Logarithm.

Find 5423 in the first column, and even therewith (in the column sign'd 7) is 2957, which annex'd to 734 the first three common figures, it will stand thus, 7342957, and the proper Index being prefix'd, the Logarithm of 54237 is found to be 4.7342957.

*Note.* When the last four figures of the Logarithm begins with a cypher or any less figure, than the last four in the second column begins with; then the first three common figures are those in the next line lower: Thus the Logarithm of 54453 is 4.7360218.

#### IV. To find the Logarithm of a Number, consisting of six Places.

Find the Logarithm of the first five figures by the third, and the Difference betwixt it and the Log. of the Number next greater, which is in the last column but one sign'd D; then find that Difference in the last column, sign'd *Pts. Pro.* (which stands for *Parts Proportional*) and against the sixth figure of the Number given, is the part to be added to the Log. of the five figures before found, the sum is the Log. sought, when 5 the proper Index is prefix'd.

*Example.* Given the Number 542375 to find it's Logarithm.

The Log. of 54237 is found (by the 3d) to be 7342957, and the difference betwixt it and the Log. next greater is 80, and in the last column against 5, under that difference is 40, which added to 7342957, and the Index 5 prefix'd, makes 5.7342997, for the Log. of 542375, which was sought.

Or, The *Proportional Part* may be found (without the Table of *Pts. Pro.* in the last column) thus: Multiply 80, the same difference, by the sixth figure, (which in this Example is 5) and divide the product by 10, gives 40, as before; for in this manner the said Table (sign'd *Pts. Pro.*) was computed.

*Note.* If the Number is in the 101st chiliad, it's Logarithm is directly found in one of the last two pages of the Table.

#### V. To find the Logarithm of a Number, consisting of seven Places.

Find the Log. of the first five figures by the 3d, and of the sixth figure by the 4th, and for the seventh figure divide the proportional part by 10, (that is, set it one place farther to the right hand, than the last figure of the Logarithm reaches) and add it to the Logarithm of the six figures before found, their sum (with the Index prefix'd) is the Log. sought; thus the Logarithm of 5423758 is found to be 6.7343003.

The *Examples* of the 3d, 4th, and this 5th, Propositions are placed at the side of the following remark.

*Note,*

*Note, The Proportional Part may be found (without the Table of Pts. Pro.) for the last two figures, by multiplying them by the common difference, and then dividing the product by 100 ; so in the last Example, 58 multiplied by 80, produces 4640, which divided by 100 quotes 46.4, the same as by the Table.*

Num.	Logarithm
54237	4.7342957
<u>5</u>	<u>40</u>
542375	5.7342997
54237	.7342957
<u>5</u>	<u>40</u>
<u>8</u>	<u>6.4</u>
5423758	6.7343003

VI. *A proper Fraction being given, to find it's Logarithm.*

Subtract the Logarithm of the denominator from the Logarithm of the numerator, the remainder is the Log. sought, and is always the Logarithm of a Decimal Fraction.

*Note, The Index of the Log. of a proper Fraction is negative, but if 10, or 100, is borrowed to the Index of the Log. of the Numerator ; Then the Index of the Log. of a Decimal Fraction beginning one place below units, will be 9, or 99 ; if two places below units, 8, or 98 ; if three places, 7, or 97 ; if four places 6, or 96, &c. the latter is often necessary to distinguish it from the Index of an Integer, especially when the power or root of a Decimal Fraction is required, as in the next Chapter.*

*Example.* To find the Logarithm of  $\frac{1}{4}$ .

From Log. of Numerator 3 . . . 10.4771213 or 100.4771213  
 Subtract Log. of Denom. 4 . . . 0.6020600 . . . 0.6020600  
 The Remainder is Log. of 0.75 . . . 9.8750613 or 99.8750613

*Note, Putting the Index of the Log. of the numerator 3 to be 10, or 100, the Index of the remainder is 9, or 99, which is one place below units, and the rest of the remainder is found in the Table of Logarithms to answer to 75, 750, or 7500 ; but as the Index determines the first figure to be put one place below units, the number answering to the remainder is 0.75.*

VII. *To find the Logarithm of a mixt Number.*

Reduce the Number given into an improper Fraction ; then subtract the Log. of the denominator from the Log. of the numerator, the remainder is the Log. sought.

*Example, To find the Logarithm of  $4\frac{1}{12}$ .*

The  $4\frac{1}{12}$  reduced to an improper Fraction, is  $\frac{49}{12}$  :  
 The Logarithm of the Numerator 57 . . . . . 1.7558748  
 The Logarithm of the Denominator 12 . . . . . 1.0798812  
 The Logarithm of  $4\frac{1}{12}$ , (or of  $4\frac{1}{10}$ ) . . . . . 0.6766936  
 If

If the Fraction part annex'd be a Decimal, *Numb* | *Logarithms.*  
 seek for the Log. of the mixt Number, as if 47500 | 4.6766936  
 it was an Integer, observing to prefix thereto 4750 | 3.6766936  
 the proper Index, which always is equal 475 | 2.6766936  
 to the number of places it's first figure is 47.5 | 1.6766936  
 distant from the place of units; which is 4.75 | 0.6766936  
 illustrated by the adjoining Table, where the 0.475 | 99.6766936  
 Logarithms differ only in the Indices. 0.0475 | 98.6766936

VIII. To find the Number, that answers to a given Logarithm.

Find the three figures next the Index of the Log. given in the second column, and the last four in the same, or in one of the nine following columns, and if you find it exactly, in the first column even therewith is the first four figures of the Number, and the fifth at the top and bottom of the column in which the last four figures of the given Log. is found.

*Example.* To find the Number answering to the Log. 2.7342957. Seek in the second column for 734, (the three figures next the Index) and having found them, look to the right hand for the last four figures among the ten columns, and you will find in that sign'd 7, is 2957; thus, 54237 are found to be the figures of the number sought; but the Index of the Log. given is 2; therefore the three figures at the left make an Integer, and the last two a decimal Fraction, viz. 542.37.

But if the Logarithm given be not found exactly in the Table, take the next less, and subtract it from the Log. given, what remains look for in the proportional Parts of the difference of the Logarithms next less and greater, and against it, or the part next less, is a sixth figure to be placed at the right hand of the five figures before found; and in case the proportional part be not found exactly, subtract it from the first remainder, then place a cypher at the right hand of this remainder, and against the nearest proportional part (either bigger or less) is a seventh figure to be placed at the right hand of the sixth figure.

*Example.* To find the Number answering to the Log. 6.7343003  
 Log. next less in the Table is the Log. of 54237 . . . . . 7342957  
 . . . . . 1st Remainder 46  
 . . . . . 5 for part . . . . . 40  
 . . . . . 2d Remainder 60  
 . . . . . 8 for part . . . . . 64  
 Diff. is 80, the Table of *Pts. Pro.* gives }  
 Thus the Number sought is found to be 5423758.

Or 4600 (the first Remainder with two cyphers annex'd) divided by Diff. 80, quotes 58 to be placed to the right hand of the 54237 first found, as well as by the Table.

C H A P.

## C H A P. III.

*Of Logarithmical Arithmetic.*

<b>I. <i>IN Multiplication</i>:</b> Add the Logs. of the multiplicand and multiplier together, the sum is the Log. of the product.	<b>II. <i>In Division</i>:</b> Subtract the Log. of the divisor from the Log. of the dividend, the remainder is the Log. of the quotient.
<i>Example.</i> Num. Logarithms Multiplicand 8.5 ... 0.9294189 Multiplier . . 10 . . 1.0000000 Product . . . 85 . . . 1.9294189	<i>Example.</i> Num. Logarithms Dividend 9712.8 . . 3.9873444 Divisor . . 456 . . . 2.6589648 Quotient 21.3 . . . 1.3283796

*To find the Complement of a Logarithm.*

Begin at the left hand, and write down what each figure wants of 9, only what the last significant figure wants of 10; so the Comp. of the Log. of 456, viz. of 2.6589648 is 7.3410352.

**III. *In the Rule of Three*:** Add the Logarithms of the second and third terms together, and from the sum subtract the Log. of the first, the remainder is the Log. of the fourth. Or instead of subtracting a Logarithm, add it's Complement, and the result will be the same; but (in the tens place of the Index of the sum) 1 is ever to be abated for each Complement thus taken, tho' the expressing it be omitted in any Rule hereafter given.

*Example 1.* If four Ells cost 9*l.* what will twelve Ells cost?

*Answer* 27*l.*

Log. of 4 is 0.6020600	Or thus ;
Log. of 9 ... 0.9542425	Comp. of Log. of 4 is . . 9.3979400
Log. of 12 ... 1.0791812	Logarithm of . . , 9 ... 0.9542425
Log. of 108 . . . 2.0334237	Logarithm of . . , 12 . . . 1.0791812
Log. of 27 ... 1.4313637	Logarithm of . . 27 ... 1.4313637

*Example 2.* If the Interest of 100*l.* for 365 days is 6*l.* what is the Interest of 5173*l.* for 321 days? *Answer*, 272.9643*l.*

Comp. of the Log. of 100 . . . . . 8.0000000
Comp. of the Log. of 365 . . . . . 7.4377071
Logarithm of . . . . . 6 . . . . . 0.7781513
Logarithm of . . . . . 5173 . . . . . 3.7137425
Logarithm of . . . . . 321 . . . . . 2.5065050
Logarithm of . . . . . 272.9643 . . . . . 2.4361059
B <span style="float: right;">A</span>

A TABLE shewing the number of days from any day in any month, to the same day in any following month.

From	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Januar.	365	334	306	275	245	214	184	153	122	92	61	31
Februa.	31	365	337	306	276	245	215	184	153	123	92	62
March	59	28	365	334	304	273	243	212	181	151	120	90
April	90	59	31	365	335	304	274	243	212	182	151	121
May	120	89	61	30	365	334	304	273	242	212	181	151
To June	151	120	92	61	31	365	333	304	273	243	212	182
July	181	150	122	91	61	30	365	334	303	273	242	212
August	212	181	153	122	92	61	31	365	334	304	273	243
Septem.	243	212	184	153	123	91	62	31	365	335	304	274
October	273	242	214	183	153	122	92	61	30	365	334	304
Novem.	304	273	245	214	184	153	123	92	61	31	365	335
Decemb.	334	303	275	244	214	183	153	122	91	61	30	365

*Example.* To find the number of days from the 1st, 10th, or 20th of *June* to the 1st, 10th, or 20th of *March*.

Find *June* at the Head, and down that Column, in the line even with *March* is 273 days: Or if it was from the 15th of *June* to the 26th of *March*; then the number of days would be eleven more than 273, viz. 284 days. Thus the number of days in any time under a year may be found by Inspection.

#### IV. To raise powers by Logarithms.

Multiply the Log. of the Number given by the Index of the power required, the product will be the Log. of the power sought.

*Example.* Let the cube of 32 be required by Logarithms.

The Log. of 32 is 1.5051500, which multiplied by 3 is 4.5154500 the Log. of 32768 the cube of 32.

But in raising the powers (viz. squaring, cubing, &c.) of any Decimal Fraction by Logarithms, it must be observed, that the first significant figure of the power be put so many places below the place of units, as the Index of it's Logarithm wants of 10, 100, &c. multiplied by the Index of the power.

*Example.* Let the cube of 0.009 be required by Logarithms.

The Log. 0.009 is 7.9542425, which multiplied by 3 is 23.8627275 the Log. of 0.000000729 the cube of 0.009: Here the Index of the Log. of the power is 23, which wants seven of 100 (3) the Index of the power; therefore the first significant figure of the power must be in the seventh place below units: But when the first figure of the power shall be lower than the tenth place,

place, it will be necessary to admit another place into the Index of the Log. of the given number, by making it the complement to 100.

*Example.* Let the sixth power, or Cubo-cube of the sine of 1 min. (Rad. 1) be required.

The Log. of the sine 1 min. in the Tables is 6.4637261, but in this case must be 96.4637261, which multiplied by 6 (the Index of the power) is 578.7823566, the Log. of 0.00000,00000,00000,06058,383: Here the Index of the Log. of the power is 578, which wants 22 of 100 x (6) the Index of the power; therefore the first significant figure of the power must be in the 22d place below units.

Or any power of a Decimal Fraction may be rais'd, by multiplying the complement of the Log. of the Fraction by the Index of the power; the complement of the product is the Log. of the power sought.

*Example.* Let the 0.625th power of 0.0032 be required.  
*Answer,* 0.0275879.

Log. of 0.0032	=	7.5051500
Complement		2.4948500
multiply'd by		0.625
		<hr/>
		124742500
		49897000
		<hr/>
		149691000
		<hr/>
Product		1.5592812500
Complement		8.4407187500
is the Log. of		0.0275879

*Note.* By this method, the number of fraction cyphers preceding in the power, will be the same as the Index of the product.

Again, Let 6.25th power of 0.0032 be required.

The Log. of 0.0032 (as before) is 7.5051500, and it's complement 2.4948500, which multiplied by 6.25, the product is ten times the former, viz. 15.5928125, and it's complement 84.4071875; which answers to 0.00000,00000,00000,25538, the 6.25th power of 0.0032.

#### V. To extract the roots of powers by Logarithms.

Divide the Log. of the Number by the Index of the power, the quotient is the Log. of the root sought.

*Example.* Let the Cube-root of 6751269 be required.

The Log. of 6751269 is 6.8293854, which divided by 3 the Index of the power, quotes 2.2764618 the Log. of 189, the Cube-root sought.

But if the power, whose root is to be extracted, is a Decimal Fraction, prefix to the Index of it's Log. a figure less by one than the Index of the power, and divide the whole by the power's Index, the quotient will be the Log. of the root sought.

B 2

*Example.*

*Example.* Let the Cubo-cube-root, or root of the sixth power of 0.00000,00000,00000,00000,06058,383 be required.

The Log. of 0.00000,00000,00000,00000,06058,383, is 78.7823566, to which prefixing  $6-1=5$ , the whole is 578.78-23566, which being divided by 6 (the Index of the power) the quotient is 96.4637261, the Log. of 0.00029,08882, the root sought.

Or the root of a Decimal Fraction as any power, may be had, by dividing the complement of the Log. of the Fraction by the Index of the power, the complement of the quotient is the Log. of the root sought.

*Example.* Let the 0.625th root of 0.0275879 be required.

The Log. of 0.0275879 is 8.4407188, and it's complement 1.5592812, which divided by 0.625 quotes 2.4948500, whose complement is 7.5051500 the Log. of 0.0032, the root sought.

Again. Let the 6.25th root of 0.00000,00000,00000,25538 be required.

The Log. of 0.00000,00000,00000,25538 is 84.4071875, and it's complement 15.5928125, which divided by 6.25 quotes 2.4948500, whose complement is 7.5051500 the Log. of 0.0032, the root sought, as before.

#### VI. To find mean proportionals between any two Numbers.

Subtract the Log. of the least term from the Log. of the greatest, and divide the remainder by a number more by one than the number of means desired; then add the quotient to the Log. of the least term (or subtract it from the Log. of the greatest) continually, and it will give the Logarithms of all the mean proportionals required.

*Example.* Let three mean proportionals be sought, between 106 and 100.

Log. of 106. . . . . 2.0253059

Log. of 100 . . . . . 2.0000000

Divide by 4)0.0253059 (0.0063264.75

Log. of the least term 100. . . . . 2.0000000

Log. of the first mean, 101.4673846 . . . . . 2.0063264.75

Log. of the second, . . . 102.9563014 . . . . . 2.0126529.5

Log. of the third . . . 104.4670483 . . . . . 2.0189794.25

Log. of the greatest term 106. . . . . 2.0253059

If of 11 mean proportionals, between 106 and 100, the 9th mean was required; divide the aforesaid remainder by 12, and multiply the quotient by 9, and add the product to the Log. of the least term; or multiply the quotient by 3, and subtract the product from the Log. of the greatest, the sum or difference is the Log. of the 9th mean required; and is the same as the third in the preceding Example.

C H A P.

## C H A P. IV.

*Of Compound Interest, by Dr. EDM. HALLBY,  
R. Afr. Sav. Pr. Geom. Ox. & F. R. S.*

**A** Principal Use of Logarithms, is to solve all the Cases of compound Interest, which are not without great difficulty attainable by the Rules of common Arithmetic. But before we proceed to the practical part, it may perhaps not be improper to say something of the foundation or demonstration of the Rules we are to give.

Therefore let  $p$  be any sum of money forborn  $t$  times;  $r$  the rate of Interest; or produce of one Pound and it's Interest in one time; that is, as 1 to  $r$ , so 1 Pound to it's amount after one year, or other space of time; and let  $m$  be the amount of the sum  $p$  forborn  $t$  times. Now because in one year or time unity becomes  $r$ , by the same reason  $r$  will in another time become  $rr$ , and  $rr$  in a 3<sup>d</sup> time become  $r^3$ , &c. it appears that  $r^t$  or  $r$  raised to the power, whose Index is the number of times, will be the amount of one Pound forborn  $t$  times, and therefore:

I. The amount  $m = pr^t$ ; therefore multiply the Logarithm of  $r$  by  $t$  and to the product add the Logarithm of  $p$ , the sum shall be the Logarithm of  $m$ .

*Example.* What is the amount of 15*l.* 17*s.* 6*d.* forborn 12 years at 6 per Cent. per Annum compound Interest.

The number  $1.06 = r$  . . . . . it's Log. 0.0253059

Which Log. multiplied by ( $t=$ ) 12 the years produces 0.3036708

The principal sum 15*l.* 17*s.* 6*d.* = 15.875*l.* =  $p$ , it's Log. 1.2007137

The amount 31*l.* 18*s.* 10½*d.* = 31.94362*l.* =  $m$ , it's Log. 1.5043845

II.  $r^t = \frac{m}{p}$ ; therefore if from the Logarithm of  $m$  the Logarithm of  $p$  be subtracted, and the remainder be divided by  $t$ , the quotient is the Logarithm of  $r$ .

*Example.* What is the rate of compound Interest, when the sum of 15*l.* 17*s.* 6*d.* forborn 12 years amounts to 31*l.* 18*s.* 10½*d.*

The

The amount 3*l.* 18*s.* 10½*d.* = 31.94362*l.* = *m*, it's Log. 1.5043845  
 The principal sum 15*l.* 17*s.* 6*d.* = 15.875*l.* = *p*, it's Log. 1.2007137  
 The remainder is Log. of  $r^t$  . . . . . 0.3036708  
 Which divided by  $t=12$  quotes Log of (1.06=)  $r$  . . . 0.0253059  
 Therefore the rate is 6 *per Cent. per Annum.*

III. Because  $r^t = \frac{m}{p}$ ; divide the difference of the Logarithms of *m* and *p* by the Logarithm of *r*: the quotient is *t*, or the time wherein the sum *p* will amount to *m* at the rate *r*.

*Example.* In what time will the principal sum of 15*l.* 17*s.* 6*d.* amount to 31*l.* 18*s.* 10½*d.* at 6 *per Cent. per Annum* compound Interest.

The amount 31*l.* 18*s.* 10½*d.* = 31.94362*l.* = *m*, it's Log. 1.5043845  
 The principal sum 15*l.* 17*s.* 6*d.* = 15.875*l.* = *p*, it's Log. 1.2007137  
 The remainder is Log. of  $r^t$  . . . . . 0.3036708  
 Which divided by 0.0253059 = Log. of *r* quotes 12 years for the time.

IV.  $p = \frac{m}{r^t}$ ; therefore multiply the Logarithm of *r* by *t*, and subtract the product from the Log. of *m*; the remainder shall be the Log. of *p* the principal sum.

*Example.* What is the principal sum that in 12 years at 6 *per Cent. per Annum.* compound Interest will amount to 31*l.* 18*s.* 10½*d.*

The amount 31*l.* 18*s.* 10½*d.* = 31.94362*l.* = *m*, it's Log. 1.5043845  
 The number 1.06 =  $r$  . . . . . it's Log. 0.0253059  
 Which Log. multiplied by ( $t=$ ) 12 the years produces 0.3036708  
 And subtracted from the Log. of the amount  
 The rem<sup>r</sup>. is Log. of (15.875*l.* = 15*l.* 17*s.* 6*d.* =) *p* = 1.2007137

The four preceding Rules are also readily deduced from the consideration of the rebate of money in this manner.

For if in any time, *r* becomes 1, in the same time 1 becomes  $\frac{1}{r}$ , And in the second time  $\frac{1}{r}$  becomes  $\frac{1}{rr}$ , and in the third  $\frac{1}{rrr}$ , &c. so that putting *p* the value or present worth of any sum *m* payable after *t* times, at the rate of *r* to 1.

I. The sum  $m = pr^t$ ; therefore multiply the Log. of *r* by *t*, and to the product add the Log. of *p*, the sum shall be Log. of *m* sought.

II.  $r^t = \frac{m}{p}$ ; therefore from the Log. of *m* subtract the Log. *p*, and divide the remainder by *t*; the quotient will be the Log of *r*.

+

III. Since

III. Since  $r = \frac{m}{p}$ ; divide the difference of the Logs. of  $m$  and  $p$  by the Log. of  $r$ , the quotient shall be  $t$  the number of years.

IV.  $p = \frac{m}{r^t}$ ; therefore multiply the Log. of  $m$  by  $t$ , and subtract the product from the Log. of  $m$ , the remainder will be the Log. of  $p$ : which finds the value of any sum of money payable after any time assigned.

The Logarithms are also serviceable to resolve all questions concerning the amount or present worth of Annuities, not paid as due, or purchased to be paid for time to come.

Let  $a$  be an Annuity or yearly pension, whose successive amounts for times past are  $ar^t$ , and whose present values are  $\frac{a}{r^t}$  successive-ly, by what goes before: And the series, &c.  $ar^t, ar^{t-1}, ar^{t-2}, ar^{t-3}, ar^{t-4}, \dots, a, \frac{a}{r}, \frac{a}{r^2}, \frac{a}{r^3}, \frac{a}{r^4}, \frac{a}{r^5}, \dots$  will be a rank of mean proportionals continued infinitely in the ratio of  $r$  to 1: Now the sum of all the consequents, or of the whole infinite series, will be to the said sum increased by the next greater term (or the sum of all the antecedents) as 1 to  $r$ , by *Euc.* 5. 12. Wherefore putting  $y$  for the said sum of the consequents,  $ry$  will be equal to  $y + ar^t$ , the sum of the antecedents; and  $ry - y = ar^t$ ; and therefore  $\frac{ar^t}{r-1}$  will be equal to  $y$ , the sum of all our mean proportionals, whereof  $ar^{t-1}$  is the greatest. And by the same Rule  $\frac{a}{r-1}$  will be the sum of all the terms whereof  $\frac{a}{r}$  is the greatest.

So that if we subtract  $\frac{a}{r-1}$  from  $\frac{ar^t}{r-1}$ , the difference will be the sum of all the terms, whereof  $ar^{t-1}$  is the greatest, and  $a$  the least, their number being  $t$ ; which sum we will call  $z$ . Therefore  $z$  (the amount of the annuity of  $a$  forborn  $t$  times at the rate  $r$ )

$$= \frac{ar^t - a}{r - 1}.$$

I. The annuity ( $a$ ) rate of Interest ( $r$ ) and time ( $t$ ) being given, to find ( $z$ ) the amount.

From the Log. of  $a$  subtract the Log. of  $r-1$ , and to the remainder add the Log. of  $r^t$ ; from the number answering to this last sum, subtract the number answering to the remainder, the difference shall be  $z$  the amount sought.

Example,

**Example.** What will an annuity of 34.4*l.* forborn 12½ years amount to at 6 per Cent. per Annum.

$$\begin{array}{rcl}
 a=34.4 & \text{L. } a=1.5365584 & \text{Lr}=0.0253059 \\
 r-1=0.06 & \text{L. } r-1=8.7781513 & t=\dots 12.5 \\
 \frac{a}{r-1}=573.3333 & \text{L. } \frac{a}{r-1}=2.7584071 & \begin{array}{r} 1265295 \\ 506118 \\ \hline 253059 \end{array} \\
 & \text{L. } r^t=0.3163237 & \\
 \frac{ar^t}{r-1}=1187.7660 & \text{L. } \frac{ar^t}{r-1}=3.0747308 & \text{L. } r^t=0.3163237.5 \\
 z=614.4327\textit{l.} = \frac{ar^t}{r-1} - \frac{a}{r-1} = \text{the Amount.}
 \end{array}$$

II. The annuity (*a*) it's amount (*z*) and the rate of Interest (*r*) being given, to find (*t*) the time.

By the foregoing  $\frac{ar^t - a}{r-1} = z$ ; therefore  $z + \frac{a}{r-1} = \frac{a}{r-1} \times r^t$ .

Wherefore from the Log. of *a* subtract the Log.  $r-1$ ; to the number answering to the remainder add the given amount, and from the Log. of the sum subtract the afore-found remainder, this second remainder divided by the Log. of *r* will quote the time required.

**Example.** In what time will an annuity of 34.4*l.* amount to 614.4327*l.* at the rate of 6 per Cent. per Annum.

$$\begin{array}{rcl}
 a=34.4 & \text{L. } a=1.5365584 & \\
 r-1=0.06 & \text{L. } r-1=8.7781513 & \\
 \frac{a}{r-1}=573.3333 & \text{L. } \frac{a}{r-1}=2.7584071 & \\
 z=614.4327 & & \\
 \frac{ar^t}{r-1}=1187.7660 & \text{L. } \frac{ar^t}{r-1}=3.0747308 & \\
 \text{L. } r=0.0253059 & 0.3163237(12.5\text{ years}=t.
 \end{array}$$

III. The amount (*z*) rate of Interest (*r*) and time (*t*) being given, to find (*a*) the annuity.

The former Equation being reduced  $a = \frac{z \times r - 1}{r^t - 1}$ . Wherefore, to the Log. of the amount *z*, add the Log. of  $r-1$ , and from the sum subtract the Log. of  $r^t-1$ , the remainder is the Log. of *a*.

**Example**

*Example.* An annuity forborn 12½ years amounts at 6 per Cent. per Annum. to the sum of 614.4327. how much is that annuity.

$$\begin{array}{lll}
 z = 614.4327 & L. z = 2.7884743 & L. r = 0.0253059 \\
 r - 1 = 0.06 & L. r - 1 = 8.7781513 & t = 12.5 \\
 r^t = 2.071685 & 1.5666256 & L. r^t = 0.3163237 \\
 r^t - 1 = 1.071685 & L. r^t - 1 = 0.0300671 & \\
 L. 34.41. the annuity = L. a = 1.5365585 & & 
 \end{array}$$

IV. The annuity ( $a$ ) time ( $t$ ) and amount ( $z$ ) being given, to find ( $r$ ) the rate.

In order to find  $r$ , the former Equation is reduced to  $\frac{z}{a} - 1 = \frac{z}{a} r - r^t$ , or in our present case  $16.8614 = 17.8614r - r^{12.5}$ , which is so affected as not readily to be resolved by the general method for resolution of Equations, unless we can first approach it by some other means; for which purpose take the following Rule, which will suffice where great exactness is not required.

Let  $\frac{z}{a} = 1 + y$ , and let  $\frac{6}{t+1} = b$ . I say, that  $\overline{bb + 2by}^{\frac{1}{2}}$  —  $b$  is exceeding near the increase of the rate, or  $r - 1$ .

Wherefore take the Log. of the amount, and the complements of the Logarithms of the time and annuity, the sum (abating 2 in the tens place of the Index) divide by  $\frac{1}{2} \times t - 1$ ; the quotient shall be the Log. of  $1 + y$ : Then divide 6 by  $t + 1$ , and to  $b$  the quotient add twice  $y$ ; and to the Log. of  $b$  add the Log. of  $b + 2y$ ; half the sum shall be the Log. of  $\overline{bb + 2by}^{\frac{1}{2}}$ , from which square root subtract  $b$ , the residue will be very near the increase, or  $r - 1$ : and adding 1,  $r$  is found. If great exactness be desired let  $r$  thus found be assum'd, and  $\frac{z}{a} r - r^t$  compared

with  $\frac{z}{a} - 1$ ; will always be greater than it; and dividing the excess by  $tr^{t-1} - \frac{z}{a}$ , the quotient added to  $r$  shall verify as many more figures in the rate as were true in the assumed  $r$ .

C

*Example.*

*Example.* An annuity of 34*l.* forborn 12½ years amounts to 614.4328*l.* required the rate of interest allowed.

$$\begin{array}{rcl}
 z = 614.4327 & L. z = 2.7884743 & \\
 t = 12.5 & \text{co. } L. t = 8.9030900 & \\
 a = 34.4 & \text{co. } L. a = 3.4634416 & \\
 \frac{1}{2} \times z - 1 = 3.75 & 0.1550059 & (0.0269575 = L. (1+y) = 1.064039) \\
 b = \frac{6}{1+1} = \frac{6}{13.5} = 0.4444444 & & 2y = 0.128078 \\
 2y \dots \dots \dots 0.1280780 & & L. b = 9.6478175 \\
 b + 2y \dots \dots \dots 0.5725224 & & L. b + 2y = 7.7577936 \\
 \frac{bb + 2by}{2} \dots \dots \dots 0.5044353 & & 19.4056111 \\
 b \dots \dots \dots 0.4444444 & & L. \frac{bb + 2by}{2} = 7.7028055 \\
 r - 1 \dots \dots \dots 0.0599909 & & 
 \end{array}$$

Therefore the rate of Interest sought is 6 per Cent. per Annum.

After the same manner the four Cases relating to the purchase of annuities are readily solved by Logarithms, and the Theorems discovered with the same ease; for  $a$ ,  $\frac{a}{r}$ ,  $\frac{a}{r^2}$ ,  $\frac{a}{r^3}$ ,  $\frac{a}{r^4}$ , &c. being a scale of mean proportionals in the ratio of  $r$  to 1, put  $y$  for the sum of all the consequents infinitely continued, whereof  $\frac{a}{r}$  is the first, and that sum will be to the sum of all the antecedents whereof  $a$  is the first, as 1 to  $r$ , that is  $1 : r :: y : ry$ , so that  $ry = y + a$ , and  $\frac{a}{r-1}$ , will be equal to  $y$  the value of the fee, or the sum of all the mean proportionals less than  $a$ . And by the same Rule  $\frac{a}{r^2 \times r - 1}$  will be the sum of all the means less than  $\frac{a}{r^2}$ , or the value of the reversion: and subtracting the one sum from the other  $\frac{a}{r-1} - \frac{a}{r^2 \times r - 1}$  will be equal to  $z$  the sum of all the means, whereof  $\frac{a}{r}$  is the greatest, and  $\frac{a}{r^t}$  the least.

I. The annuity ( $a$ ) time ( $t$ ) and rate of interest ( $r$ ) being given, to find ( $z$ ) the present value.

The present value  $z = \frac{a}{r-1} - \frac{a}{r^t \times r - 1}$ ; therefore from Log. of the annuity subtract the Log. of  $r-1$ , and from the residue subtract also the Log. of  $r^t$ , the difference of the numbers answering to the two remainders is the present value sought.

*Example.*

*Example.* What is 70*l.* per Annum to continue 59 years worth in present money, at the rate of 5 per Cent. per Annum.

$$\begin{array}{rcl}
 a=70. & L.a=1.8450980 & L.r=0.0211893 \\
 r-1=0.05 & L.r-1=8.6989700 & t=59 \\
 Fee=1400*l.* & L. fee=3.1461280 & 1907037 \\
 Reversion 78.6972*l.* & L.r=1.2501687 & 1059465 \\
 & L.rever.=1.8959593 & L.r=1.2501687 \\
 & & z=1321.3028*l.* the present value sought.
 \end{array}$$

II. The annuity (*a*) present value (*z*) and rate of interest (*r*) being given, to find (*t*) the time.

Now  $r$  will be equal to  $\frac{a}{r-1}$  (or the Fee) divided by the value of the reversion, that is by  $\frac{a}{r-1} - z$ . Wherefore from the Log. of the annuity, subtract the Log. of  $r-1$ ; the number answering to the remainder will be the value of the fee; from the fee subtract the present worth, the residue is the value of the reversion. Take the Log. of the reversion from the Log. of the fee, and divide the residue by the Log. of  $r$ , the quotient will be the number of years fought.

*Example.* In what time will an annuity of 70*l.* per Annum pay off a debt of 1321.3028*l.* allowing the Creditor 5 per Cent. per Annum.

$$\begin{array}{rcl}
 a=70 & L.a=1.8450980 & \\
 r-1=0.05 & L.r-1=8.6989700 & \\
 Fee=1400 & L. fee=3.1461280 & \\
 z=1321.3028 & & \\
 Reversion 78.6972 & L. rev.=1.8959593 & \\
 & L.r=0.0211893 & 1.2501687 (59 years=t.
 \end{array}$$

III. The present value (*z*) rate of interest (*r*) and time (*t*) being given, to find (*a*) the annuity.

The former Equation may be reduced to this proportion, as  $1 - \frac{1}{r^t}$  to *z*, so is  $r-1$  to *a* the annuity sought.

Wherefore to the complement of the Log. of  $1 - \frac{1}{r^t}$  add the Logarithms of *z* and of  $r-1$ , the sum shall be Log. of *a*.

C 2

*Example*

*Example.* What annuity to continue 59 years can be purchased for 1321.3028l. at the rate of 5 per Cent. per Annum.

$$\begin{array}{lll} \frac{1}{r} = 0.0562123 & & L. r = 0.0211893 \\ 1 - \frac{1}{r} = 0.9437877 & \text{co. } L. 1 - \frac{1}{r} = 0.0251257 & L. r = 0.0211893 \\ x = 1321.3028 & L. x = 3.1210023 & L. r = 0.0211893 \\ r - 1 = 0.05 & L. r - 1 = 8.6989700 & L. \frac{1}{r} = 8.7498313 \\ L. (70l. =) a \text{ the annuity sought} = 1.8450980 \end{array}$$

IV. The annuity ( $a$ ) present value ( $x$ ) and time ( $t$ ) being given, to find ( $r$ ) the rate of interest.

This Problem being more difficult than appears at first sight, and requiring the solution of this Equation  $\frac{a}{x} = \frac{z + a}{x} r^t$

$-\frac{t+r}{r}$ , to which it is reduced; there must be applied some method of approaching the root  $r$ , which is by no means evident: And that approximation as the number of years and rate are greater or less, cannot properly be obtained by one general rule; but rather by two, according as the value of the reversion is greater or less.

If the number of years be great (as suppose 40 or upwards) and especially if the rate of interest be high  $1 + \frac{a}{x}$  will be nearly

the rate, or more accurately  $\frac{x+a}{x} - \frac{x^t}{x+a} \times \frac{a}{x}$ ; call it  $r$ ; and

$\frac{a}{r^t \times r - 1}$  will be exceeding near the value of the reversion, which

let be  $x$ ; then  $1 + \frac{a}{x+x}$  shall approach the true rate sufficiently.

But if greater exactness be desired, by repeating this process it will be obtain'd. Hence this rule: From the Log. of  $a$ , and also from the Log. of  $x+a$ , take the Log. of  $x$ , this latter remainder shall be nearly the Log. of the rate: Multiply that Log. by  $t$ , and the complement of the product add to the first remainder; the decimal fraction answering to the sum taken from the former rate shall give a more correct rate. With this rate seek  $x$  the reversion after the time given, which add to  $x$ ; then to the complement of the Log. of  $x+x$ , add the Log. of  $a$ , the sum shall be the Log. of the increase or of  $r-1$  sufficiently near.

†

*Example.*

*Example.* If 1321.3028*l.* is paid for an annuity of 7*ol.* per Annum for 59 years to come, what is the rate of interest allowed the Purchaser?

$$\begin{array}{rcl}
 n=70 & L.s=1.8450980 & L.z+s=3.1434217 \\
 z=1321.3028 & L.z=1.1210023 & L.e.....3.1210023 \\
 & 8.7240957 & \\
 \frac{z+s}{z}=1.052978 & co. L. \frac{z+s}{z}=8.6772554 & L. \frac{z+s}{z}=0.0224194 \\
 & & 1.....59 \\
 & & 2017746 \\
 \text{Log. of } 0.06212..... & 7.3013511 & 1120970 \\
 \text{Find } r=1.039458 & L.r=0.0213787 & \\
 & n=59 & \\
 & 1924083 & \\
 & 1068016 & \\
 n=1321.3028 & L.r=1.2013433 & co. L. r=8.7366567 \\
 s=76.002 & co. L. z+s=6.8547088 & co. L. r-1=1.2970700 \\
 z+s=1397.3048 \text{ the Fee} & L.s...1.8450980 & L.s=1.8450980 \\
 & L.r-1=8.6998068 & L.s=1.8808247 \\
 r-1=0.03096 & & 
 \end{array}$$

So that the rate of interest sought is 5 per Cent. per Annum.

If the number of years be small, the aforesaid Rule will avail little. In this case it will be requisite to approach the rate thus.

Let  $\frac{z+s}{z}$  be the Index of a root of  $\frac{at}{z}$ ; from which root sub-

tract 1, and the remainder call  $y$ , and let  $\frac{6}{t-1}$  be called  $b$ . I say,

that  $b - \overline{bb - 2b}^{\frac{1}{2}}$  is sufficiently near to  $r-1$ , and will be still nearer the truth, as the number of years is smaller; and that the error will be always in excess. Hence the Rule: Divide the

Log. of  $\frac{at}{z}$  by  $\frac{t+1}{2}$ , and from the number answering to the quotient subtract 1; double the remainder, and subtract it from  $b$ ; that is from the quotient of 6 divided by  $t-1$ ; to the Logarithm of this remainder add the Log. of  $b$ ; then the number answering to half the sum of those Logarithms taken from  $b$  will leave  $r-1$  the increase of the rate sought.

*Example.*

*Example.* An annuity of 20*l.* per Annum, to continue 21 years, is sold for 220*l.* required the rate of interest allowed the purchaser.

$$\begin{array}{rcl}
 a = 20 & L. a = 1.3010300 & \\
 t = 21 & L. t = 1.3222193 & \\
 x = 220 & co. L. x = 7.6575773 & \\
 \frac{1}{2}xt + 1 = 111 & 0.2808266(0.0255297 = L. (1+y) = 1.060546 & \\
 & 2y = 0.121092 & \\
 & L. b = 9.4771213 & \\
 & L. b - 2y = 9.2562298 & \\
 & r8.7297511 & \\
 2y \dots \dots \dots 0.121092 & & \\
 b - 2y \dots \dots \dots 0.178908 & L. bb - 2by)^{\frac{1}{2}} = 9.3648755 & \\
 \overline{bb - 2by}^{\frac{1}{2}} \dots \dots \dots 0.231673 & & \\
 \end{array}$$

$$\text{Now } b - \overline{bb - 2by}^{\frac{1}{2}} = 0.068327 = r - 1$$

Therefore  $r = 1.068327$  the rate sought.

The rate  $r$  thus found is always some small matter too big, the true rate being 1.06814; but as the number of years are fewer, the error becomes insensible. If greater exactness be required, 'twill be easy by the general method for the resolution of Equations, having so near an approximation to prosecute this enquiry as far as you please. But this seems abundantly sufficient for use, which is our principal design in this place.

*Lastly,* By way of Corollary to the former. Let it be required to find the rate of interest allowed the Purchaser when he pays a sum  $x =$ , for an annuity  $= a$ , wherein he has already a term  $= t$ , to have it prolong'd for a certain time  $= x$ .

*Example.* An annuity of 20*l.* per Annum being in possession for the term of 21 years, and for 40*l.* paid down, it can be prolong'd for 10 years more, or to 31 years; what is the rate of interest required?

Put  $T = 2t + x + 1$ , and  $\frac{1}{2}T$  shall be the Index of a root of  $\frac{ax}{z}$ . Let  $\frac{ax}{z}^{\frac{1}{2}T}$  be equal to  $1 + y$ , and  $\frac{6T + 6}{xx} = b$ . I say  $r - 1$  is very near to  $b - \overline{bb - 2by}^{\frac{1}{2}}$ .

$$a=20 \quad L. a=1.3010300$$

$$x=10 \quad L. x=1.0000000$$

$$z=40 \quad \text{co. } L. z=8.3979400$$

$$\frac{1}{2}T=26.5)0.6989700(0.0263762=L.(1+y)=1.062616$$

$$2y=0.125232$$

$$b=\frac{6T+6}{xx}=3.24$$

$$L. b=0.5105450$$

$$2y \dots \dots 0.125232$$

$$L. b-2y=0.4934257$$

$$1.0039707$$

$$\frac{bb-2by}{2}=\frac{3.176767}{2}$$

$$L. \frac{bb-2by}{2}=0.5019853$$

$$b-\frac{bb-2by}{2}=0.063233=r-1$$

Therefore  $r=1.063233$  the rate sought.

As will be readily proved by seeking the value of the reversion of an annuity of 20*l.* per Annum for 10 years after 21; at the rate of 1.063233 per Cent. per Annum. See the Work.

$$a=20$$

$$L. a=1.3010300 \quad L. r=0.0266284$$

$$r-1=0.063233 \quad \text{co. } L. r-1=1.1990562$$

$$21$$

$$\text{co. } L. r^t=9.4408036$$

$$266284$$

Rever. 87.275*l.*

$$L. \text{rev.}=1.9408898$$

$$532568$$

$$\text{co. } L. r^x=9.7337160$$

$$L. r^x=0.5591964$$

Rever. 47.2722*l.*

$$L. \text{rev.}=1.6746058$$

40.0028*l.* the value sought.

Thus it appears that 40*l.* and about three farthings is the true value of the difference of the reversions at the rate of interest before found; by which it may be judged how near an approximation the foregoing Rule affords towards finding the rate of interest, when the value of an annuity for a term of years to commence after such a distant time is proposed.

## CH A P. V.

### Of the Table of Natural and Logarithmic Sines, Tangents and Secants.

THE natural Sines, Tangents and Secants, are every where in the columns next to the minutes, and sign'd with N. as their Logarithms are with L. in the adjoining columns; at the top if the arc is less than 45 degrees, and at the bottom if greater, as far as 90 degrees; and the differences of the Log. Sines

Sines, Tangents, and Secants, are common to the Logarithms on both sides, and those Logarithms (abating 1 in the tens place of the Index) are mutually complements to each other; so that by this Table, the complement of any Log. Sine, Co-sine, Tangent, Co-tangent, Secant, and Co-secant, is as readily taken, as the Log. Sine, Co-sine, &c. itself to every minute of every degree of the Quadrant.

But if the complement of a Log. Tangent above 45 degrees, or of a Log. Secant is taken; then 2 will be to the left hand of the sum (that is, in the tens place of the Index) to be abated, instead of an unit.

*I. To find the Sine, Co-sine, Tangent, Co-tangent, Secant, and Co-secant of any Arc to 90 degrees, either natural or logarithmical.*

Seek the number of degrees at the top or bottom of the Table; and the minutes on the left hand downwards, or on the right hand upwards, and even therewith is both the natural and the logarithmic Sine, Co-sine, &c. to be found in it's proper column.

But if the arc contains any parts of a minute, intermediate to those found in the Table: Take the difference between the Sines, &c. of the given degrees and minutes, and of the minute next greater. Then as 1 is to that difference, so is the given intermediate part of a minute in decimals to a fourth; therefore multiply that difference by such decimal part, and add the product to the Sine, Tangent, and Secant, or subduct it from the Co-sine, Co-tangent and Co-secant, of the given degrees and minutes, the sum or remainder will be the Sine, &c. required.

When any sexagesimal parts are given of a lower denomination than minutes, they may be reduced to the decimal part of a minute, by the Table at the end of the Versed Sines.

*Example 1.* To find the natural Sine of  $1^{\circ} 48' 28'' 12'''$ .

The natural sine of $1^{\circ} 49'$ . . . . .	317015
The natural sine of $1^{\circ} 48'$ . . . . .	314108
The difference . . . . .	2907
Now $1 : 2907 :: (28'' 12''' =) 0.47' : 1366$ , or $2907 \times 0.47 = 1366$	
The natural sine of $1^{\circ} 48'$ . . . . .	314108
The natural sine of $1^{\circ} 48' 28'' 12'''$ . . . . .	315474

*Note,* If the diff. 2907 was multiplied by 28.2'', and the product divided by 60, the quotient would be 1366, as before.

*Example*

*Example 2.* To find the Log. Sine of  $1^{\circ} 48' 28'' 12'''$ .

The Log. sine of  $1^{\circ} 48'$  . . . . . 8.4970784

The difference given in the Table is 40014, and multiplied by 0'.47(=28'' 12''') produces nearly } . . . 18807

The Log. sine of  $1^{\circ} 48' 28'' 12'''$  . . . . . 8.4989591

*Note,* In these small arcs (if exactness is required) it would be better to find first by this Table the natural Sine or Tangent, and then it's Logarithm by the Table of the Logarithms of Numbers.

*Example 3.* To find the Log. Co-sine of  $88^{\circ} 11' 31'' 48'''$ .

The Log. Co-sine of  $88^{\circ} 11'$  . . . . . 8.5010798

The diff. is 40014, and mult. by 0'.53(=31'' 48''') produces } -21207

The Log. Co-sine of  $88^{\circ} 11' 31'' 48'''$  . . . . . 8.4989591

Which is the same as the Log. sine of it's complement found in *Ex. 2.*

*Example 4.* To find the Log. Tangent of  $2^{\circ} 23' 33'' 36'''$ .

The Log. Tangent of  $2^{\circ} 23'$  . . . . . 8.6193127

The diff. is 30300, and mult. by 0'.56(=33'' 36''') produces 16968

The Log. Tangent of  $2^{\circ} 23' 33'' 36'''$  . . . . . 8.6210095

Or Log. Co-tang. of  $87^{\circ} 36' 26'' 24'''$ .

*Note,* The Log. Tangent + Log. Co-tangent = 20.0000000

Also the Log. Sine + Log. Co-Secant . . . . . 20.0000000

*Example 5.* To find the Log. Secant  $2^{\circ} 57' 32'' 24'''$ .

The Log. Secant of  $2^{\circ} 57'$  . . . . . 10.0005759

The diff. is 65, and mult. by 0'.54(=32'' 24''') produces . . . 35

The Log. Secant of  $2^{\circ} 57' 32'' 24'''$  . . . . . 10.0005794

The Log. Co-sine of  $2^{\circ} 57' 32'' 24'''$  therefore is . . . 9.9994206

For the Log. Secant and Log. Co-sine together make 20.0000000

## II. A natural or logarithmic Sine, Co-sine, Tangent, Co-tangent, Secant, or Co-secant being given, to find the Arc.

Take the next less of the same kind found in the Tables, and subtract it from that given, observing the degrees and minutes answering to it; then annexing 2 or 3 cyphers to the remainder, (See Chap. II. at the end) divide it by the difference between it and the next greater, the quotient will be the decimal part of a minute to be added to, or subtracted from the degrees and minutes before found.

A decimal fraction may be reduced into a sexagesimal, by the Table at the end of the Versed-sines.

D

*Example*

*Example 1.* Given the Log-sine 9.8393859 to find the Arc.  
 The Log. sine of  $43^{\circ} 41'$  is next less 9.8392719  
 The diff. between it and next greater 1322)1140.000(0'.862  
 Answer  $43^{\circ} 41'.862 = 43^{\circ} 41' 51'' 43'''$ .

*Example 2.* Given the Log. Tangent 9.6766687 to find the Arc.  
 The Log. Tang. of  $25^{\circ} 24'$  is next less 9.6765426  
 The diff. between it and next greater 3260)1261.000(0'.387  
 Answer  $25^{\circ} 24'.387 = 25^{\circ} 24' 23'' 13'''$ .

*Example 3.* Given the Log-secant 10.2041174 to find the Arc  
 The Log-secant of  $51^{\circ} 19'$  is next less 10.2041091  
 The diff. between it and next greater . . 1579)83.0000(0'.0526  
 Answer  $51^{\circ} 19'.0526 = 51^{\circ} 19' 3'' 9'''$ .

*Example 4.* Given the Log. Co-sine 9.9994206 to find the Arc  
 The Log. Co-sine of  $2^{\circ} 58'$  is next less 9.9994176  
 The diff. between it and next greater . . . 65)30.0000(0'.4615  
 Answer  $2^{\circ} 57'.5385 = 2^{\circ} 57' 32'' 19'''$ .

*Note,* Here the 0'.4615 is to be subtracted from the  $2^{\circ} 58'$  first found.

*Example 5.* Given the Nat. Co-sine 315474 to find the Arc.  
 The Nat. Co-sine of  $88^{\circ} 12'$  is next less 314108  
 The diff. between it and next greater 2907)1366.0000(0'.4699  
 Answer  $88^{\circ} 11'.53 = 88^{\circ} 11' 31'' 48'''$ .

## C H A P. VI.

### *The Cases of right-lined Triangles, solved by Logarithms.*

**I**N this and the next Chapter it is to be observed, that when we say the Sine, Tangent, &c. we mean the logarithmic Sine, Tangent, &c. as found by the Table.

*Prop. I.* Having the angles, and one side, to find either of the other sides.

Add the Logarithm of the given side to the Sine of the angle opposed to the side required, and from the sum subtract the sine of the angle opposed to the given side, the remainder will be the Logarithm of the side required.

*Example :* In the Triangle BCE Fig. 2. having the angle CEB

CEB 90 deg. CBE 51 deg. 56 min.  
BCE 38 deg. 4 min. and the side  
BE 197.3 ; to find the side CE.

2.2951271 Log. of 197.3  
9.8961369 Sine of 51 deg. 56 min.  
12.1912640 Sum  
9.7899880 Sine of 38 deg. 4 min.  
2.4012760 Log. of 251.9278 for CE req.

Or you may add the complement of the Sine of the angle opposed to the given side, to the two other logarithms, the sum (abating Radius) is the logarithm of the side required, as shewn in Prop. III. *Chap.* III. And it is to be observed, that the complements of the Sines in the Table are to be found in the columns of the Co-secants: For (passing over the first unit) the Co-secants of the same arcs, are the complements of the same Sines.

*Example.* The Sine of 38 deg. 4 min. being 9.7899880, the Co-secant of 38 deg. 4 min. is 10.2100120, which omitting the first unit is the complement of the said Sine.

0.2100120 Co. of Sine of 38 deg. 4 min.  
2.2951271 Log. of 197.3  
9.8961369 Sine of 51 deg. 56 min.  
2.4012760 Log. of 251.9278, as before

But if one side and the angles of a right-angled Triangle be known, and you would have the other side, as in the former Example, the operation will be easier, thus ;

Add the Tangent of the angle opposite to the side required, to the Logarithm of the given side, the sum (abating Radius) is the Logarithm of the side required.

10.1061489 Tangent of 51 deg. 56 min.  
2.2951271 Log. of 197.3  
2.4012760 Log. of 251.9278 as before.

Prop. II. *Having two sides, and an angle opposite to one of them ; to find the other two angles, and the third side.*

Add the Sine of the angle given, to the Logarithm of the side adjoining that angle, and from the sum subtract the Logarithm of the side opposed to that angle, the remainder shall be the Sine of the angle opposite to the adjoining side.

*Example :* In the Triangle ABC, Fig. 2. having the side AC 800, BC 320, and the angle ABC 128 deg. 4 min. to find the angles BAC ACB, and the side AB.

9.8961369 the Sine of 128 deg. 4 min.  
2.5051500 Log. of 320.  
12.4012869 Sum  
2.9030900 Log. of 800.  
9.4981969 Sine of 18 deg. 21 m. for BAC

Having BAC and ABC, the angle ACB is their complement to 180 deg. viz. 33 deg. 35 min. and you may find the side AB by the first Proposition.

Prop. III. *Having two sides, and the angle between them ; to find the other two angles, and the third side.*

If the angle included be a right-angle, add the Radius to the Logarithm of the lesser side, and from the sum subtract the Logarithm of the greater side, the remainder shall be the Tangent of the angle opposed to the lesser side.

*Example :* In the Triangle BCE. Fig. 2. having the side BE 197.3, and CE 251.9 ; to find the angles BCE, CBE, and the side CB.

12.2951271 Rad. added to Log. of 197.3  
2.4012278 Log. of 251.9  
9.8938989 Tan. of 38 deg. 4 m. for BCE.

D 2

But

But if the angle included is oblique; add the Logarithm of the difference of the given sides to the Tangent of half the sum of the angles unknown, and from the sum subtract the Logarithm of the sum of the given sides, the remainder shall be the Tangent of the half of their difference.

*Example:* In the Triangle ABC Fig. 2. having the side AB 562, BC 320, and the angle ABC 128 deg. 4 min. to find the angles BAC, ACB, and the side AC.

The sum of the given sides is 882, and the difference 242, the half sum of the angles unknown, is 25 deg. 58 min.

2.3838154	Log. of 242 diff. of the sides
9.6875402	Tang. of 25 deg. 58 min.
12.0713556	Sum
2.9454686	Log. of 882 sum of the sides
9.1258870	Tangent of 7 deg. 37 min.

These 7 deg. 37 min. being added to 25 deg. 58 min. the half sum of the angles unknown, the sum is 33 deg. 35 min. for the greater angle ACB; and the same 7 deg. 37 min. being subtracted from 25 deg. 58 min. the remain-

der is 18 deg. 21 min. for the lesser angle CAB. *Lastly*, Knowing the angles, and two sides, the third side may be found by the first proposition.

Prop. IV. *Having the three sides; to find any Angle.*

Add the three sides together, and take half the sum, and the differences betwixt the half sum and each side: Then add the complements of the Logarithms of the half-sum, and of the difference between the half sum and the side opposite to the angle sought, to the Logarithms of the differences of the half-sum and the other sides; half their sum will be the Tangent of half the angle required.

*Example:* In the Triangle ABC, Fig. 2. having the side AB 562, AC 800, and BC 320, to find the angle ABC.

AC=800	H=841	co. log. 7.0752040
AB=562	H-AC=41	co. log. 8.3872161
BC=320	H-AB=279	log. 2.4456042
sum 1682	H-BC=521	log. 2.7168377
$\frac{1}{2}$ sum 841	H	sum 20.6248620
Tang. of 64d. 2m. = half sum 10.3124310		
Whose double 128 deg. 4 min. is the angle ABC.		

## C H A P. VII.

### The Cases of Spherical Triangles solved by Logarithms.

**T**HE Resolution of Spherical Triangles is to be performed by the Table of Sines, Tangents and Secants, which we shall shew by the 28 Propositions following, whereof 16 are of right-angled, and 12 are of oblique Triangles; and first

#### Of the Right-angled Triangles.

Prop. I. *Having the Legs; to find the Hypotenuse.*

Add the Co-sine of one leg, to the Co-sine of the other leg; the sum (abating Radius,) is the Co-sine of the hypotenuse required.

*Example:*

**Example:** In the right-angled Triangle ACB, Fig. 3. having AC, 27 deg. 54 min. and BC 11 deg. 30 min. to find AB the hypotenuse.

99911927 Co-sine of 11 deg. 30 min.  
 99463371 Co-sine of 27 deg. 54 min.  
 99375298 Co-sine of 30 deg. 00 min.  
 for AB required.

**Prop. II. Having the two legs ; to find either of the angles.**

Add the Sine of the leg next the angle sought, to the Co-tangent of the other leg ; the sum (abating Radius,) is the Co-tangent of the angle required.

**Example:** In the right-angled Triangle ACB Fig. 3. having AC 27 deg. 54 min. and BC 11 deg. 30 min. to find the angle BAC.

96701907 Sine of next leg 27 deg. 54 m.  
 106915374 Co-tang. of opp. leg 11 d. 30 m.  
 103617181 Co-tang. of BAC 23 d. 30 m.

**Prop. III. Having the Hypotenuse, and one of the angles ; to find the other angle.**

Add the Co-sine of the hypotenuse to the Tangent of the angle given ; the sum (abating Radius,) is the Co-tangent of the angle required.

**Example:** In the right-angled Triangle ACB, Fig. 3. having the hypotenuse AB 30 deg. and the angle ABC 69 deg. 22 min. to find the angle BAC.

99375306 Co-sine of hypot. AB 30 deg.  
 104241896 Tangent of ABC 69 deg. 22 m.  
 103617202 Co-tang. of BAC 23 deg. 30 m.

**Prop IV. Having the hypotenuse, and one of the angles ; to find the leg next the given angle.**

Add the Tangent of the hypotenuse to the Co-sine of the angle

given ; the sum (abating Radius,) is the Tangent of the leg required.

**Example:** In the right-angled Triangle ACB, Fig. 3. having the hypotenuse AB 30 deg. and the angle ABC 69 deg. 22 min. to find the leg BC.

97614393 Tang. of hyp AB 30 deg.  
 95470188 Co-sine of ABC 69 deg. 22 m.  
 93084581 Tang. of leg BC 11 deg. 30 m.

**Prop. V. Having the hypotenuse, and one of the angles ; to find the leg opposed to the given angle.**

Add the Sine of the hypotenuse to the Sine of the angle given ; the sum (abating Radius,) is the Sine of the leg required.

**Example:** In the right-angled Triangle ACB, Fig. 3. having the hypotenuse AB 30 deg. and the angle BAC 23 deg. 30 min. to find the leg BC.

96989700 Sine of hyp. AB 30 deg.  
 96006997 Sine of BAC 23 deg. 30 min.  
 92996697 Sine of leg BC 11 deg. 30 min.

**Prop. VI. Having one of the legs, and the angle next it ; to find the hypotenuse.**

Add the Co-tangent of the given leg, to the Co-sine of the angle given ; the sum (abating Radius,) is the Co-tangent of the hypotenuse required.

**Example:** In the right-angled Triangle ACB, Fig. 3. having the leg AC 27 deg. 54 min. and the angle BAC 23 deg. 30 min. to find the hypotenuse AB.

102761563 Co-tang. of leg AC 27 d. 54 m.  
 99623977 Co-sine of BAC 23 deg 30 m.  
 102385540 Co-tang. of hyp AB 30 deg.

Prop.

**Prop. VII.** *Having one of the legs, and the angle next it ; to find the other leg.*

Add the Sine of the leg given to the Tangent of the angle given ; the sum (abating Radius,) is the Tangent of the leg required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg AC 27 deg. 54 min. and the angle BAC 23 deg. 30 min. to find the leg BC.

$$\begin{array}{r} .96701807 \text{ Sine of leg AC } 27 \text{ deg. } 54 \text{ min.} \\ .96383019 \text{ Tang. of BAC } 23 \text{ deg. } 30 \text{ min.} \\ \hline .93084826 \text{ Tang. of leg BC } 11 \text{ deg. } 30 \text{ min.} \end{array}$$

**Prop. VIII.** *Having one of the legs, and the angle next it ; to find the other angle.*

Add the Co-sine of the given leg to the Sine of the angle given ; the sum (abating Radius,) is the Co-sine of the angle required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the angle ABC 69 deg. 22 min. to find the angle BAC.

$$\begin{array}{r} .99911927 \text{ Co-sine of leg BC } 11 \text{ deg. } 30 \text{ min.} \\ .99712084 \text{ Sine of ABC } 69 \text{ deg. } 22 \text{ min.} \\ \hline \end{array}$$

$$.99624011 \text{ Co-sine of BAC } 23 \text{ deg. } 30 \text{ min.}$$

**Prop. IX.** *Having one of the legs, and the angle opposed unto it ; to find the hypotenuse.*

Add the Radius to the Sine of the given leg, and from the sum subtract the Sine of the angle given, the remainder is the Sine of the hypotenuse required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the angle BAC 23 deg. 30 min. to find the hypotenuse AB.

$$\begin{array}{r} 19.2996553 \text{ Rad. } + \text{ Sine of } 11 \text{ deg. } 30 \text{ min.} \\ .96006997 \text{ Sine of BAC } 23 \text{ deg. } 30 \text{ min.} \\ \hline .96989556 \text{ Sine of } 30 \text{ deg. for AB reqd.} \end{array}$$

**Prop. X.** *Having one of the legs, and the angle opposed unto it ; to find the other leg.*

Add the Tangent of the given leg, to the Co-tangent of the given angle ; the sum (abating Radius,) is the Sine of the leg required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the angle BAC 23 deg. 30 min. to find the leg AC.

$$\begin{array}{r} .93084626 \text{ Tang. of leg BC } 11 \text{ deg. } 30 \text{ min.} \\ 10.3616981 \text{ Co-tang. of BAC } 23 \text{ d. } 30 \text{ min.} \\ \hline .96701607 \text{ Sine of leg AC } 27 \text{ deg. } 54 \text{ m.} \end{array}$$

**Prop. XI.** *Having one of the legs, and the angle opposed unto it ; to find the other angle.*

Add the Radius to the Co-sine of the given angle, and from the sum subtract the Co-sine of the leg given ; the remainder is the Sine of the angle required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the angle BAC 23 deg. 30 min. to find the angle ABC.

$$\begin{array}{r} 19.9623977 \text{ Rad. } + \text{ Co-sine of } 23 \text{ deg. } 30 \text{ min.} \\ .99911927 \text{ Co-sine of leg BC } 11 \text{ deg. } 30 \text{ min.} \\ \hline .99712050 \text{ Sine of ABC } 69 \text{ deg. } 22 \text{ min.} \end{array}$$

**Prop. XII.** *Having one of the legs, and the hypotenuse ; to find the angle next the given leg.*

Add the Tangent of the given leg, to the Co-tangent of the hypotenuse, the sum (abating Radius,) is the Co-sine of the angle required.

*Example :*

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg AC 27 deg. 54 min. and the hypotenuse AB 30 deg. to find the angle BAC.

97238436 Tang. of leg AC 27 deg. 54 min.  
102385606 Co-tang. of hyp. AB 30 deg.

99624042 Co-sine of BAC 23 deg. 30 min.

**Prop. XIII.** *Having one of the legs, and the hypotenuse ; to find the angle opposed to the given leg.*

Add the Radius to the Sine of the given leg, and from the sum subtract the Sine of the hypotenuse, the remainder shall be the Sine of the angle required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the hypotenuse AB 30 deg. to find the angle BAC.

92996553 Rad. + Sine BC 11 deg. 30 min.  
96989700 Sine of hyp. AB 30 deg.

56006853 Sine of BAC 23 deg. 30 min.

**Prop. XIV.** *Having one of the legs, and the hypotenuse ; to find the other leg.*

Add the Radius to the Co-sine of the hypotenuse, and from the sum subtract the Co-sine of the given leg, the remainder is the Co-sine of the leg required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the leg BC 11 deg. 30 min. and the hypotenuse AB 30 deg. to find the leg AC.

199375306 Rad. + Co-sine of AB 30 deg.  
99911927 Co-sine of leg BC 11 deg. 30 min.

99463379 Co-sine of leg AC 27 deg. 54 min.

**Prop. XV.** *Having the angles ; to find the hypotenuse.*

Add the Co-tangent of one oblique angle to the Co-tangent of the other oblique angle ; the sum (abating Radius,) is the Co-sine of hypotenuse required.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the angle BAC 23 deg. 30 min. and the angle ABC 69 deg. 22 min. to find the hypotenuse AB.

103616981 Co-tang. of BAC 23 deg. 30 min.  
95758104 Co-tang. of ABC 69 deg. 22 min.

99375085 Co-sine of hyp. AB 30 deg.

**Prop. XVI.** *Having the angles ; to find either of the legs.*

Add the Radius to the Co-sine of either oblique angle, and from the sum subtract the Sine of the other oblique angle, the remainder shall be the Co-sine of the leg opposite to the angle, whose Co-sine was taken.

*Example :* In the right-angled Triangle ACB, Fig. 3. having the angle BAC 23 deg. 30 min. and the angle ABC 69 deg. 22 min. to find the leg BC.

199623977 Rad. + Co-sine of BAC 23 deg. 30 min.  
99712084 Sine of ABC 69 deg. 22 min.

99911893 Co-sine of leg BC 11 deg. 30 min.

### Of Oblique Triangles.

**Prop. XVII.** *Having the three sides to find any of the angles.*

Add the three sides, and take half the sum, and the difference between the half sum and the side opposite to the angle sought. Then add

add the complements of the Sines of the other sides, to the Sines of the half sum and of the said difference; half the sum of these four Logarithms is the Co-sine of half the angle required.

*Example:* In the Triangle SZP, Fig. 4. having the side ZS 40 deg. PS 70 deg. and PZ 38 deg. 30 min. to find the angle ZPS.

d. m.	
PS=70	o Comp. of it's Sine 0.0270142
PZ=38 30	o Comp. of it's Sine 0.2058505
ZS=40	o Sine of half sum 9.9833805
Sum 148 30	Sine of diff. .... 9.7503579
half sum 74 15	sum 19.9666031
ZS=40	o Co-sine 15 d. 47 m. 9.9833015
Diff 34 15	Whole double 31 d. 34 m. is ZPS reqd.

**Prop. XVIII.** *Having the three angles; to find any of the sides.*

Let the angles be changed into sides, taking the supplement of the greater; then the operation, shall be the same as in the former Proposition.

**Prop. XIX.** *Having two angles, and a side opposed to one of them; to find the side opposed to the other angle.*

Add the Sine of the side given to the Sine of the angle opposed to the side required, and from the sum subtract the Sine of the angle opposed to the side given, the remainder shall be the sine of the side required.

*Example:* In the Triangle SZP, Fig. 4. having the angle SZP 130 deg. 3 min. 12 sec. SPZ 31 deg. 34 min. 26 sec. and the side ZS 40 deg. to find the side PS.

9.8585675 Sine of side ZS 40 deg.  
9.8839145 Sine of SZP 130 d. 3 m. 12 sec.

19.4919820 Sum  
9.7189976 Sine of SPZ 31 d. 34 m. 26 sec.

9.9729844 Sine of 70 deg. for PS reqd.

**Prop. XX.** *Having two angles, and a side opposed to one of them; to find the side between the angles given.*

Let a perpendicular fall from the angle unknown, upon it's opposite side: Then add the Co-sine of the given angle next the given side, to the Tangent of the given side; the sum (abating Radius,) is the Tangent of the first Arc, comprehended between the given angle next the given side, and the segment of the side where the perpendicular falls.

And the second Arc comprehended between the same segment and the other angle, is to be found thus; Add the sine of the Arc found, to the Tangent of the given angle next the given side, and from the sum subtract the Tangent of the other angle given, the remainder shall be the Sine of the second Arc.

The sum or difference of these two Arcs will be the side required.

*Example:* In the Triangle SZP, Fig. 4. having the angle ZPS 31 deg. 34 min. 26 sec. ZSP 30 deg. 28 min. 12 sec. and the side PZ 38 deg. 30 min. to find the side SP.

9.9304222 Co-sine of ZPS 31° 34' 26"  
0.0006052 Tang. of PZ 38° 30'

9.9310274 Tang. of 34° 7½' for PR  
1st Arc

9.7489630 Sine of PR 34° 7½'  
0.7885766 Tang. ZPS of 31° 34' 26"

19.5375386 Sum

9.7606281 Tang. of ZSP 30° 28' 12"

9.7679103 Sine of 35° 52½' for SR  
2d Arc  
Now

Now in this Example, adding PR 34 deg. 7½ min. (the first arc) to SR 35 deg. 52½ min. (the second arc) the sum is 70 deg. for SP required. But when the perpendicular falls out of the Triangle, the difference of the two arcs will be the side required.

Prop. XXI. *Having two angles, and a side opposite to one of them; to find the third angle.*

Let a perpendicular fall from the angle unknown, upon it's opposite side: Then add the Co-sine of the given side to the Tangent of the adjacent angle; the sum (abating Radius) is the Co-tangent of the first angle to be found, comprehended by the given side and the perpendicular.

And the second angle, comprehended by the perpendicular and the side unknown, is to be found thus:

Add the sine of the angle found, to the Co-sine of the given angle opposed to the given side, and from the sum subtract the Co-sine of the other angle given, the remainder shall be the sine of the second angle.

The sum or difference of these two angles will be the angle required.

*Example:* In the Triangle SZP, Fig. 4. having the angle ZPS 31 deg. 34 min. 26 sec. ZSP 30 deg. 28 min. 12 sec. and the side PZ 38 deg. 30 min. to find the angle SZP.

9.8935444 Co-sine of PZ 38° 30'  
9.7883756 Tang. of ZPS 31° 34' 26"  
-----  
9.6821200 Co-tang. of 64° 18' 50"  
for PZR 1st angle

9.9548126 Sine of PZR 64° 18' 50"  
9.9354167 Co-sine of ZSP 30° 28' 12"  
-----  
19.8902693 Sum  
9.0304222 Co-sine ZPS 31° 34' 26"  
9.9592471 Sine of 65° 44' 23', for SZK 2d angle.

Now in this Example, adding PZR 64 deg. 18 min. 50 sec. (the first angle) to SZR 65 deg. 44 min. 23 sec. (the second angle) the sum is 130 deg. 3 min. 13 sec. for the angle SZP required. But when the perpendicular falls out of the Triangle, the difference of the two angles will be the angle required.

Prop. XXII. *Having two sides, and the angle between them; to find either of the other angles.*

Let a perpendicular fall from the unknown angle not required upon it's opposite side: Then add the Co-sine of the given angle, to the Tangent of the given side opposed to the angle required, the sum (abating Radius) is the Tangent of the first arc, comprehended between the given angle and the segment of the given side where the perpendicular falls.

And the second arc is the difference of that side, and the first arc, being comprehended between the same segment, and the angle required.

Now add the Sine of the first arc, to the Tangent of the given angle, and from the sum subtract the Sine of the second arc, the remainder shall be the Tangent of the angle required.

*Example:* In the Triangle SZP, Fig. 4. having the side PZ 38 deg. 30 min. PS 70 deg. and the angle ZPS 31 deg. 34 min. 26 sec. to find the angle ZSP.

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Co-sine

9.9304222 Co-sine of ZPS  $31^{\circ} 34' 26''$ 9.9006052 Tang. of ZP  $38^{\circ} 30'$ 9.8310274 Tang. PR  $34^{\circ} 7' \frac{1}{2}$  1st arc.9.7489630 Sine of PR  $34^{\circ} 7' \frac{1}{2}$ 9.7885756 Tang. of ZPS  $31^{\circ} 34' 26''$ 

19.5375386 Sum

9.7679115 Sine of SR  $35^{\circ} 52' \frac{1}{2}$  2d arc9.7696271 Tang. of  $30^{\circ} 28' 12''$  for  
ZSP required*To find both the angles unknown.*

Add the complement of the Sine of half the sum of the given sides, the sine of half their difference, and the Co-tangent of half the angle given together; the sum

(abating Radius) is the Tangent of half the difference of the angles required.

Add also the complement of the Co-sine of half the Sum of the given sides, the Co-sine of half their difference, and the Co-tangent of half the angle given together; the Sum (abating Radius) is the Tangent of half the sum of the angles required.

Then add the half difference of the angles required, to their half sum, and you will have the greater angle; and subtract the half-difference from the half-sum, and you will have the lesser angle required, the same as in the former operation.

PS=70° 0'	PS=70° 0'	Co. of line $\frac{1}{2}$ sum 0.0906719	Co. of cs. $\frac{1}{2}$ sum 0.2334015
PZ=38 30	PZ=38 30	Sine of $\frac{1}{2}$ diff. 9.4336746	Co-sine of $\frac{1}{2}$ diff 9.9833805
Sum 108 30	Diff. 31 30	Co-tang. $\frac{1}{2}$ ZPS 10.5486352	Co-tang. $\frac{1}{2}$ ZPS 10.5486352
$\frac{1}{2}$ Sum 54 15	$\frac{1}{2}$ Diff. 15 45	Tan. $49^{\circ} 47' 30''$ 10.0729817	Tan. $80^{\circ} 15' 42''$ 10.7654172
Angle ZPS=31° 34' 26"		Half the sum of the angles required is . . 80° 15' 42"	
$\frac{1}{2}$ ZSP=15 47 13		Half the difference is . . . . . 49 47 30	
		The greater angle SZP is, . . . . . 130 3 12	
		The lesser angle ZSP is as before. . . . . 30 28 12	

**Prop. XXIII. Having two sides, and the angle between them; to find the third side.**

Let a perpendicular fall from either of the angles unknown, upon it's opposite side: Then add the Co-sine of the given angle, to the Tangent of the side from whose end the perpendicular is let fall: the sum (abating Radius) is the Tangent of the first arc, comprehended between the angle given, and the segment of the side where the perpendicular falls.

And the second arc is the difference of that side and the first arc, being comprehended between the same segment and the end of the side required.

Now add the Co-sine of the second arc, to the Co-sine of the side from whose end the perpendicular falleth; and from the sum subtract the Co-sine of the first arc found; the remainder shall be the Co-sine of the side required.

*Example:* In the Triangle SZP, Fig. 4. having the side PZ 38 deg. 30 min. PS 70 deg. and the angle ZPS 31 deg. 34 min. 26 sec. to find the side ZS.

9.9304222 Co-sine ZPS 31d 34m. 26s.

9.9006052 Tang. of PZ 38d 30m.

9.8310274 Tang PR 34d. 7  $\frac{1}{2}$  m. 1st arc

9.6935444 Co-sine of PZ 38d. 30m.

9.9086444 Co-sine of SR 35d. 52  $\frac{1}{2}$  m.

2d arc

19.8021888 Sum

9.9179336 Co-sine of PR 34d. 7  $\frac{1}{2}$  m.

1st arc

9.8842552 Co-sine of 4cd for ZS req.

**Prop. XXIV.** *Having two sides, and the angle opposed to one of them; to find the angle opposed to the other side.*

Add the Sine of the angle given, to the Sine of the side opposed the angle required, and from the sum subtract the Sine of the side opposed to the angle given, the remainder shall be the Sine of the angle required.

**Example :** In the Triangle SZP Fig. 4, having the side PS 70 deg. ZS 40 deg. and the angle SZP 130 deg. 3 min. 12 sec. to find the angle ZPS.

9.8339145 Sine of SZP 130deg. 3m. 12sec.  
9.8080675 Sine of ZS 40 deg.

19.6919820 Sum  
9.9729858 Sine of PS 70 deg.

9.7189962 Sine of ZPS 31d. 34m 26f. req.

**Prop. XXV.** *Having two sides, and the angle opposed to one of them; to find the third side.*

Let a perpendicular fall from the angle between the sides given, upon it's opposite side: Then add the Co-sine of the angle given, to the Tangent of the given side next that angle; the sum (abating Radius) is the Tangent of the first arc, comprehended between the given angle, and the segment of the side where the perpendicular falls.

Now the 2d arc comprehended between the same segment, and the end of the side required, is to be found thus: Add the Co-sine of the first arc, to the Co-sine of the given side opposed to the angle given, and from the sum subtract the Co-sine of the other side

given, the remainder shall be the Co-sine of the second arc.

The sum or difference of these two arcs will be the side required.

**Example :** In the Triangle SZP, Fig. 4. having the side PZ 38 deg. 30 min. SZ 40 deg. and the angle SPZ 31 deg. 34 min. 26 sec. to find the side PS.

9.9304222 Co-sine of SPZ 31d. 34m. 26f.  
9.9006052 Tang. of PZ 38 deg. 30 min.

9.8310274 Tang. of PR 34d. 7m. 30 sec.  
11t arc

9.9179336 Co-sine of PR 34d. 7m. 30 sec.  
9.8842547 Co-sine of SZ 40 deg.

19.8021876 Sum  
9.8935444 Co-sine of PZ 38 deg. 30 min.

9.9086432 Co-sine of SR 35d. 52m. 30 sec.  
2d arc

Now in this Example, adding PR 34 deg. 7½ min. (the first arc) to SR 35 deg. 52½ min. (the second arc) the sum is 70 deg. for PS the side required. But when the perpendicular falls out of the Triangle, the difference of the two arcs will be the side required.

**Prop. XXVI.** *Having two sides, and the angle opposed to one of them; to find the angle between them.*

Let a perpendicular fall from the angle between the sides given, upon it's opposite side: Then add the Co-sine of the given side next the given angle, to the Tangent of that angle; the sum (abating Radius) is the Co-tangent of the first angle to be found, comprehended by the given side next the angle given, and by the perpendicular.

Now the second angle comprehended by the Perpendicular, and the other given side,

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is to be found thus : Add the Co-sine of the first angle found, to the Tangent of the given side next the angle given, and from the sum subtract the Tangent of the other given side, the remainder shall be the Co-sine of the second angle to be found.

The sum, or the difference of the first and second angles, shall be the angle required.

*Example :* In the Triangle SZP, Fig. 4. having the side PZ 38 deg. 30 min. SZ 40 deg. and the angle SPZ, 31 deg. 34 min. 26 sec. to find the angle SZP.

9.8935444 Co-sine of PZ 38 deg. 30 min.  
9.7885756 Tang. of SPZ 31 deg. 34 min. 26 sec.

9.6821200 Co-tang. of PZR 64d. 18m. 50f.  
1st angle.

9.6369296 Co-sine of PZR 64d. 18m. 50f.  
9.9006052 Tang. of PZ 38 deg. 30 min.

19.5375348 Sum  
9.9238135 Tang. of SZ 40 deg.

9.6137213 Co-sine of SZR 65d. 44m. 23f.  
2d angle

Now in this Example, adding PZR 64 deg. 18 min. 50 sec. (the first angle) to SZR 65 deg. 44 min. 23 sec. (the second angle) found, the sum is 130 deg. 3 min. 13 sec. for SZP the angle required.

**Prop. XXVII.** *Having two angles, and the side between them ; to find either of the other sides.*

Let a perpendicular fall from that angle given which is next the side required, upon it's opposite side : Then add the Co-sine of the given side to the Tangent of the given angle opposed to the side required ; the sum (abating Radius) is the Co-tangent of the first angle to be found, comprehended

by the given side, and the perpendicular.

And the second angle is the difference of the first, and the given angle next the side sought, being comprehended by the perpendicular, and that side.

Now add the Co-sine of the first angle found, to the Tangent of the side given, and from the sum subtract the Co-sine of the second angle, the remainder shall be the Tangent of the side required.

*Example :* In the Triangle SZP, Fig. 4. having the angle SPZ 31 deg. 34 min. 26 sec. SZP 130 deg. 3 min. 12 sec. and the side PZ 38 deg. 30 min. to find the side SZ.

9.8935444 Co-sine of PZ 38 deg. 30 min.  
9.7885756 Tang. of SPZ 31 deg. 34 min. 26 sec.

9.6821200 Co-tang. PZR 64d. 18m. 50f.  
1st angle.

9.6369296 Co-sine of PZR 64d. 18m. 50f.  
9.9006052 Tang. of PZ 38 deg. 30 min.

19.5375348 Sum  
9.6137221 Co-sine of SZR 65d. 44m. 22f.  
2d angle

9.9238127 Tang. of SR 40 deg. side req.

*To find both the sides unknown.*

Add the complement of the Sine of half the sum of the angles given, the Sine of half their difference, and the Tangent of half the given side together ; the sum (abating Radius) is the Tangent of half the difference of the sides required.

Add also the complement of the Co-sine of half the sum of the given angles, the Co-sine of half their difference, and the Tangent of half the given side together ; the sum (abating Radius) is the Tangent of half the sum of the sides required.

The

Then add the half difference of the sides required, to their half sum, and you will have the greater side; and subtract the half

difference from the half sum, and you will have the lesser side required, the same as in the former operation.

d. m. f.	d. m. f.		d. m. f.		d. m. f.
SZP 130 3 12	SZP 130 3 12	Co. of line half sum	0.8056062	Co. of cs half sum	0.7968369
SPZ 31 34 26	SPZ 31 34 26	Sine of half diff	0.8793587	Co-sine half dif.	0.8148417
Sum 161 37 38	Diff 98 28 46	Tang. of half PZ	0.5430936	Tang. of half PZ	0.5430936
half sum 80 48 49	half dif. 49 14 23	Tang. of 15 deg.	0.4280525	Tang. of 55 deg.	10.1547733
Side PZ	38 30	Half the Sum of the sides required is			55 deg.
half Side PZ	19 15	Half their difference is			15 deg.
		The greater side SP is			70 deg.
		Lesser side SZ is, as before			40 deg.

Prop. XXVIII. Having two angles, and the side between them; to find the third angle.

Let a perpendicular fall from either of the angles given, upon it's opposite side: Then add the Co-sine of the side given, to the Tangent of the given angle, from which the perpendicular does not fall, the sum (abating Radius) is the Co-tangent of the first angle, comprehended by the given side and the perpendicular.

And the second angle is the difference of the first, and the given angle that the perpendicular fell from, being comprehended by the perpendicular, and the side opposed to the other angle given.

Now add the Sine of the second angle, to the Co-sine of that gi-

ven angle from which the perpendicular did not fall, and from the sum subtract the Sine of the first angle found; the remainder shall be the Co-sine of the angle required.

*Example:* In the Triangle SZP Fig. 4. having the angle SZP 130 deg. 3 min. 12 sec. SPZ 31 deg. 34 min. 26 sec. and the side PZ 38 deg. 30 min. to find the angle PSZ.

9.8915444	Co-sine of PZ 38 deg. 30 min.
9.7885756	Tang. of SPZ 31 d. 34 m. 26 sec.
9.6821200	Co-tang. of PZR 64 d. 18 m. 57 f.
	1st angle
9.9304222	Co-sine of 31 deg. 34 min. 26 sec.
9.9598454	Sine of SZR 65 d. 44 m. 22 sec.
	2d angle.
19.8902676	Sum
9.9548126	Sine of PZR 64 deg. 18 m. 57 f.
	1st angle
9.9354550	Co-sine of PSZ 30 d. 28 m. reqd.

## C H A P. VIII.

### Of the Table of Natural and Logarithmic Versed-sines.

THE Natural and Logarithmic Versed-sines, in this edition, are truly corrected, and set next one another in columns distinctly titled; the degrees throughout the Table,

are set at the top, and the minutes number'd downwards at both sides of each page, quite on to 90 degrees; so that the Versed-sine of either sort is readily taken to

to every minute of the quadrant, and for any intermediate part in the same manner, as in finding the Sine, Tangent, or Secant.

But since the Versed-fines are not here continued from 90 degrees to 180; and because the Versed-fine of an arc above 90 degrees may as often be wanted as of an arc less than 90 degrees, except in some particular cases; therefore, in some measure to supply that defect; in the natural Versed-fines, add the Radius (= 10000,000) to the natural Sine of the excess of the arc above 90 degrees, the sum will be the natural Versed-fine required; and in the Logarithmic Versed-fines, add 0.3010300 to twice the Log. line of half the arc, the sum abating Radius (= 10.0000000) will be the Log. Versed-fine required.

**Prop. I.** *Having two sides of a spheric Triangle, with the angle between them, to find the third side.*

Add the Log. Versed-fine of the contain'd angle, and the Log. fines of the two sides together; the sum (abating twice the Radius) is the Logarithm of a number to be found, and added to the natural Versed-fine of the difference of the two given sides, the sum will be the natural Versed-fine of the third side sought.

Or when the contained angle is above 90 degrees, add the Log. Versed-fine of it's supplement, and the Log-fines of the two sides together; the sum (abating twice the Radius) is the Logarithm of a number to be found, and subtracted from the natural Versed-fine of the sum of the two given sides, the remainder will be the natural Versed-fine of the third side sought.

**Example 1.** In the Triangle SZP (Fig. 4.) having the side PZ 38 deg. 30 min. PS 70 deg. and the angle ZPS 31 deg. 34 min. 26 sec. to find the side ZS.

9.1703625 Log. Ver. fine ZPS 31d 34m. 26s.  
9.7941496 Log. fine of the side PZ 38d 30m  
9.9729858 Log. fine of the side PS 70 deg.

8.9574979 Log. of the number ... 865,960  
Nat. Ver. fine diff. of sides 31d. 30m. 1473,598

Nat. Ver. fine of side ZS 40 deg. ... 2339,558

**Example 2.** In the Triangle SZP (Fig. 4.) having the side PZ 38 deg. 30 min. ZS 40 deg. and the angle SZP 130 deg. 3 min. 12 sec. to find the side PS.

The angle VZP is the supplement of SZP.

9.5520590 Log. Ver. fine VZP 49d. 56m. 48s.  
9.7911496 Log. fine of the side PZ 38d 30m.  
9.8080675 Log. fine of the side ZS 40 deg.

9.1542761 Log. of the number ... 1426,514  
Nat. Ver. fine of sum of the two }  
given sides 78 deg. 30 min. } 8006,321

Nat. Ver. fine of the side PS 70d. 6579,807

**Example 3.** In the Triangle LPN (Fig. 5.) having the side LP 84 deg. 33 min. PN 84 deg. 27 min. and the angle LPN 106 deg. 45 min. to find the side LN.

The supplement of LPN is 73 deg. 15 min.

9.8523603 Log. Ver. fine of 73 deg. 15 min.  
9.9980323 Log. fine of LP 84 deg. 33 min.  
9.9979593 Log. fine of PN 84 deg. 27 min.

9.8483519 Log. of the number ... 7052,643  
Nat. Ver. fine LP+PN 169 deg. 19816,272

Nat. Ver. fine of LN 106 deg. }  
2 min. 35.7 sec. the side reqd. } 12763,629

This Proposition may be very useful in finding the distances of places on the Earth, whose Longitudes

tudes and Latitudes are known; the distances of Stars, whose declinations and right ascensions, or Longitudes and Latitudes are known; and consequently the altitudes, or common altitude of two Stars, or two altitudes of the Sun, and time between the observations, or difference of azimuth being taken, the Latitude of the Place may readily be found.

Prop. II. *Having two angles of a spheric Triangle, and the side between them, to find the third angle*

Let the angles be changed into sides, and the side into an angle; then do as in the former Proposition, and the result will be the supplement of the third angle; but if one of the given angles exceed 90 degrees, take it's supplement, and the result will be the third angle.

## C H A P. IX.

*Of the Table of Difference of Latitude and Departure, or Traverse* TABLE.

**T**HIS Table is in this edition so contrived, as to have the whole in one view, and the double column for 10, or 100 miles added to it, and is so plainly titled as to want little or no explication.

The Distances 1, 2, 3, at the top and bottom may be accounted 10, 20, 30, &c. and the 10, 100, if the minutes of Latitude and Departure answering to the Course be increased in the same proportion; so that if the distance consists of two significant figures, the difference of Latitude, and the Departure, is each to be taken out at twice, and if of three figures at thrice.

The chief design of this Table is for the ready and exact working of Traverses; but it may also be applied to the solution of the several Cases of Plain Sailing.

Prop. I. *Having the Course and Distance, to find the difference of Latitude and Departure.*

Seek the Course on the Left-hand of both pages downwards, if less

than four points, or 45 degrees; or if greater, on the right hand upwards, and even with it in the double column, sign'd at the top and bottom with the distance, is found both the difference of Latitude and the Departure.

*Example 1.* A ship sails S.S.W.  $\frac{1}{2}$  W. 37 miles; the difference of Latitude, and the Departure are required.

Find the Course  $2\frac{1}{2}$  points on the left-hand side of each page, and even with it in the double columns sign'd 3, and 7, the two figures of the distance, the difference of Latitude for 30 is 25.732, and for 7 is 6.004; the sum is 31.736 for the whole difference of Latitude; and the Departure for 30 is 15.423, and for 7 is 3.599, the sum is 19.022 for the whole Departure.

Thus Dist.	Diff. Lat.	Dep.
30 . . . .	25.732 . .	15.423
7 . . . . .	6.004 . .	3.599

37 miles	31.736 . .	19.022
----------	------------	--------

*Example*

*Example 2.* A ship sails S. E. 49 degrees 148 miles; the difference of Latitude, and the Departure are required.

Find the Course 49 degrees on the right-hand side of each page, and even with it in the double columns sign'd 10, 4, and 8, the difference of Latitude at 100 miles is 65.606, at 40 is 26.242, and at 8 is 5.248, the sum is 97.096 for the whole difference of Latitude; and the Departure at 100 miles is 75.471, at 40 is 30.188, and at 8 is 6.038, the sum is 111.697 for the whole Departure. Thus,

<i>Diff.</i>	<i>Diff. Lat.</i>	<i>Depart.</i>
100 . . . .	65.606 . . .	75.471
40 . . . . .	26.242 . . .	30.188
8 . . . . .	5.248 . . .	6.038
<hr/>		
148 miles	97.096 . . .	111.697

*Prop. II. Having several Courses and Distances, to find the difference of Latitude, and the Departure.*

Make a Table in the following manner, and put therein each Course and Distance; then find the difference of Latitude, and Departure to each Course by the preceding, and place them in the proper column; the difference of the sums of the northings and southings, is the whole difference of Latitude; and the difference of the sums of the eastings and westings, is the whole Departure.

*Example.* A ship from the Latitude of 50 degrees North, sails according to the Courses and Distances set in the Traverse Table, the difference of Latitude, and the Departure are found at the bottom.

*The Traverse TABLE.*

Courses	Diff.	Diff. of Lat.		Departure.	
	Miles	North	South	East	West
S. S. E. $\frac{1}{2}$ E.	79		69.671	37.241	
S. E. $\frac{1}{4}$ E.	86		54.557	66.479	
S. by W. $\frac{1}{2}$ W.	108		101.687		36.384
S. 48° W.	112		74.942		83.231
N. 85° W.	70	6.101			69.734
S. 40° W.	84		64.348		53.994
<hr/>					
		6.101	365.205	103.720	243.343
			6.101		103.720
<hr/>					
		Diff. Lat.	359.104	Depart.	139.623

This

This Proposition may be applied in the surveying of large tracts of Land, as a County, &c. and was made use of by Mr. Norwood in his measuring the distance from York to London, as the road led him, and observing the several bearings by his Circumferentor, and finding by such a Table his several differences of Latitude, and Departures, whereby he obtain'd the distance between the Parallels of London and York pretty near the truth, so long ago as the year 1635, as may be seen in his *Seaman's Practice*, since reprinted for W. Moxon and T. Page on Tower-Hill: But if those Bearings had been taken by the limb of a modern Theodolite, and lengths all measured, according to the method I have shewn in my *Practical Surveying Improved*, it is to be believed, that the distance between the Parallels of London and York would have been had much truer; for it is allowed, that the Needle is not in all places parallel, and even in small Surveys at Land various, and not to be trusted to; whereas if the Celestial Observation could be depended upon equal to that lately taken at the Polar Circle, I am apt to believe, that by measuring with a strong Chain, and the care there prescribed, so large an arc of the meridian as the distance of the Parallels of London and York, the length of the arc of a degree in these parts might be obtained, as near the truth, as it was had at the Polar Circle.

Also in plotting the Survey of a County thus taken, the circuit station-lines (tho' consisting of many hundreds) may be reduced

to a few for the first closing, and the like for the intermediates of each line first plotted, whereby every station may be more truly placed than by any other method that I know of: The distances in the Table may be Chains of 66, or 100 feet, as well as miles, or any other measure, that the differences of Latitude, and Departures, would be had in.

*Prop. III. Having the difference of Latitude and the Departure, to find the Course and Distance.*

Seek the given difference of Latitude and Departure taken together in their columns, or the nearest numbers to them, and the Course is even therewith at the side, and the distance at the top and bottom: But if the given difference of Latitude and Departure can't be found nearly, take  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ , &c. part, (or any equal multiple) of them that can be found; then the Course is even with them at the side, and such a part of the distance, as was taken of the difference of Latitude and Departure, at the top and bottom.

*Example 1.* Given the difference of Latitude 59 miles S. and the Departure 68 miles W. the Course and Distance are required.

In the double column over 9 even with 49 degrees at the right-hand side, is found together the given difference of Latitude and Departure; therefore the Course is 49 deg. S. W. and the distance 90 miles.

*Example 2.* Given the difference of Latitude 30 miles N. and

and the Departure 18 miles E. the Course and Distance are required.

Here the given difference of Latitudes and Departure, or any numbers near them, are not to be found together in the Table, therefore taking  $\frac{1}{2}$  or the double of each, the Course is found to be 31 deg. N. E. and the distance 35 miles.

*Note*, A table computed to every mile in the distance up to 500 miles, would more readily solve this example.

**Prop. IV.** *Having the Departure and middle Latitude, to find the difference of Longitude (according to the Method used by W. Jones, Esq; F.R.S.)*

Seek the given Departure, or the next less number, in the columns sign'd Lat. even with the given middle Latitude found among the Courses, and at the top and bottom (sign'd with Dist.) is the difference of Longitude sought, which if not found directly at once, may be taken out at twice, or thrice.

*Example 1.* Being yesterday noon in the Latitude of  $37^{\circ} 17'$  N. and this day noon in  $38^{\circ} 43'$  N. and by the table the Departure is found 70.021 E. the difference of Longitude is required.

In the column sign'd Lat. under 9, even with  $38^{\circ}$  the middle Latitude, is found 7.0021; therefore 90 miles is the difference of Longitude sought.

*Example 2.* Being yesterday noon in Latitude  $40^{\circ} 25'$  N. and this day at noon in  $47^{\circ} 35'$  N. so that the middle Latitude is  $44^{\circ}$

N. and the Departure is found 112.53 miles W. required the difference of Longitude?

In the column sign'd Lat. over 10 at the bottom, even with  $47^{\circ}$  at the right-hand side, is 6.8200; therefore subtracting 68.200 from 112.53, the remainder is 44.33, then over 6 is 4.0920, and 40.92 subtracted from 44.33 leaves 3.41, which is found over 5; wherefore the difference of Longitude is 165 miles West.

If the middle Latitude is not an even degree, but has odd minutes, find the difference of Longitude for the even degrees next less and greater, and add a proportional part of the difference between the two results to the lesser, the sum will be the difference of Longitude sought.

Suppose the middle Latitude in the last *Example* had been  $47^{\circ} 20'$  N. then after finding the difference of Longitude as before for 47 degrees; find it also for 48 degrees, which is 168 miles, then  $\frac{1}{2}$  of the difference being added to the former, gives the difference of Longitude 166 miles West.

*Note*, Tho' this method is not in all cases near the truth, yet (if the miles are geographical) is sufficiently near for daily practice in any Voyage, as well as easy, and very expeditious.

**Prop. V.** *Having the Latitudes and Longitudes of two Places, to find the Bearing and Distance.*

Seek the complement of the middle Latitude among the degrees, and the difference of Longitude in minutes among the distances, the Departure answering

is found in it's proper column; then with the difference of Latitudes, and Departure, find their Bearing (or Course) and distance by the 3<sup>d</sup>.

*Example.* Let the *Lizard* be given in the Latitude of  $49^{\circ} 50'$  N. and  $5^{\circ} 21'$  W. Longitude, and Cape *Ortegal* in the Latitude of  $44^{\circ} 10'$  N. and  $7^{\circ} 43'$  W. Longitude, to find the Bearing and distance.

The difference of Longitude is 142 minutes, and in the columns sign'd Dep. under 10, 4, and 2, even with 43 deg. the co-middle Latitude, are found 68200, 2.7280, and 1.3640, then increasing the two former as before shewn, their sum is 96.844 miles W. for the Departure, and the Bearing, or Course answering to 340 miles difference of Latitude, with 96.844 Departure is found about 16 deg. S. W. and the distance about 354 Miles.

## CH A P. X.

### Of MERCATOR'S Sailing.

**I**N this collection of Tables, we should by no means have omitted that most necessary one of the Meridional Parts, design'd for the service of Navigators, if it's uses were not fully supply'd by the Table of logarithmic tangents: As is demonstrated in N<sup>o</sup> 219 of the *Philosophical Transactions*. It is there proved. 1<sup>st</sup>, That the Meridional-line, or scale of *Mercator's Chart*, is a Scale of the logarithm-tangents of the half complements of the Latitudes, 2<sup>dly</sup>, That such logarithm-tangents of Mr. Briggs's form, are a scale of the differences of Longitude, upon the rumb which makes an angle of  $51^{\circ} 38' 9''$  with the Meridian. And 3<sup>dly</sup>, That the differences of Longitude, on differing rumb, are to one another as the tangents of the angles of those rumb with the Meridian.

Hence it follows, that the difference of the logarithm-tangents of the half complements of the Latitudes, is to the difference of Longitude a ship makes in sailing on any rumb from the one Latitude to the other, as the tangent of  $51^{\circ} 38' 9''$  (whose logarithm is 10.1015104) to the tangent of the angle of the rumb or course with the Meridian; so that;

I. If two Latitudes, and the difference of Longitude be given, the course and distance are readily determined by this Rule.

Take (by help of the Tables) the difference of the logarithm-tangents of the half complements of the Latitudes, esteeming the last three figures to be a decimal fraction; and add the complement of it's logarithm to the logarithm of the difference of Longitude reduced to minutes, and the constant log. 10.1015104,

the sum (abating radius) shall be the log. tangent of the course. And to the log. secant of the course, add the logarithm of the difference of Latitude reduced to minutes, the sum (abating radius) shall be the logarithm of the distance in minutes.

*Example.* Given the *Lizard* to be in Latitude  $49^{\circ} 55'$  North, *Barbadoes* in  $13^{\circ} 10'$  North, and their difference of Longitude  $53^{\circ} 00'$ , or  $3180$  minutes West, to find the course and distance.

$\frac{1}{2}$ Co-lat. $\frac{1}{2}$ Barbadoes $35^{\circ} 25'$ ..	L.tan. 9.8993082	L. 3180 min. = 3.5024271
$\frac{1}{2}$ Lizard $20 \ 2\frac{1}{2}$ ..	L.tan. 9.5620477	Const. log. 10.1015104
	Diff. 3372.605	it's co-log. ... 6.4720346
Log. tang. of the Course $49^{\circ} 59' 10''$ South-west .....		10.0759721
Log. sec. of the Course $49 \ 50 \ 10$ .....		10.1918067
Log. of 2205 min. diff. of the Latitudes .....		3.2424086
Log. of 3429.378 distance of Barbadoes from the Lizard .....		3.5352153

II. If two Latitudes and the Course be given, the difference of Longitude is obtain'd with the same ease: For as the tangent of  $51^{\circ} 38' 9''$  is to the tangent of the course, so is the difference of the logarithm-tangents of the half complements of the Latitudes, to the difference of Longitude sought. Wherefore to the complement of the constant Log. 10.1015104, add the Log. of the difference of the logarithm-tangents of the half complements of the Latitudes, and the log-tangent of the course, the sum (abating radius) will be the Log. of the difference of Longitude in minutes.

*Example.* Given the Latitudes  $49^{\circ} 55'$  and  $13^{\circ} 10'$ , and Course  $49^{\circ} 59' 10''$ , to find the difference of Longitude.

Lat. $13^{\circ} 10'$ it's $\frac{1}{2}$ co-lat $35^{\circ} 25'$ ..	L.tan 9.8993082
Lat. $49 \ 55$ .....	20 $2\frac{1}{2}$ ... L.tan. 9.5620477
	Co.const. log. 9.8984896
	Diff. 3372.605 ... it's log. 3.5279654
Log-tang. of the Course $49^{\circ} 59' 10''$ .....	10.0759721
Log. of 3180 min. = 53 deg. for diff. of Longitude .....	3.5024271

By this Rule, having two good observations of the Latitude and the Course duly steer'd, the reckoning of a ship's way is best ascertain'd, especially if you sail near the Meridian.

III. If the Latitude departed from, the Course steer'd, and distance sail'd be given, to find the ship's Latitude, and difference of Longitude.

First, the Latitude is obtain'd from the consideration that the distance is to the difference of Latitude, as radius to the co-sine of the Course, which is common to Plain Sailing. Therefore to the log. of the distance add the log. co-sine of the Course, the sum (abating radius) is the log. of the difference of Latitudes, which difference added to the lesser Latitude, or subtracted from the greater,

greater, the sum or remainder is the present Latitude ; then having the two Latitudes, and the Course, the difference of Longitude is found by the 2d.

*Example.* Having sail'd from the *Lizard* in Latitude  $49^{\circ} 55'$  North on a Course  $49^{\circ} 59' 10''$  South-westerly 3429.378 miles : 'tis required in what Longitude and Latitude the ship is found.

Log. of 3429.378 the distance sail'd . . . . . 3.5352153  
 Log. co-sine of  $49^{\circ} 59' 10''$  the Course . . . . . 9.8081923  
 Log. of 2205 min. or  $36^{\circ} 45'$  diff. of the Latitudes 3.3494086  
 Now subtracting  $36^{\circ} 45'$  from  $49^{\circ} 55'$ , the remainder  $13^{\circ} 10'$  M.  
 is the Latitude the Ship is found in.

By which Latitude now known, the difference of logarithm-tangents will be found 3372.605 and the further process in nothing differing from the second Rule, whereby the difference of Longitude will be found  $53^{\circ} 00'$ .

Thus the dead reckoning by the Log-line, and daily account of a ship's way is duly kept, and the trouble very little more than by Plain-sailing.

These are all the Cases that occur in practice ; the rest, that are mostly speculative, are either easily reducible to these, or else not to be perform'd by logarithms, and therefore come not at present under our cognizance.

But 'tis to be noted, that both the complements of the Latitudes are to be estimated from the same Pole of the World ; which may be from either : and therefore if one Latitude be North, and the other South, to have their complements, you must add 90 degrees to one of them, and subtract the other from 90, and then the operation will be the same as in the preceding Cases.

*Example.* Given St. *Jago* one of the *Cape de Verde* Islands, to be in the Latitude of  $14^{\circ} 56'$  North ; and the Island St. *Helena*, in Latitude  $15^{\circ} 45'$  South, and their difference of Longitude  $30^{\circ} 12'$  East, to find the course and distance.

$\frac{1}{2}$  Co-lat.  $\left\{ \begin{array}{l} \text{St. Jago } 32^{\circ} 28' \dots \text{L. tan. } 10.1144965 \\ \text{St. Helena } 37 \quad 7\frac{1}{2} \dots \text{L. tan. } 9.8790845 \end{array} \right.$  L. 1812 min 3.2581532  
 Conf. log. 10.1015104  
 2354.120 it's co-log. 6.6281714  
 Log-tang. of the Course  $44^{\circ} 11' 53''$  South-east . . . . . 9.9878400  
 Log. sec. of the Course  $44 \quad 11 \quad 53$  . . . . . 10.1445200  
 Log. of 1841 min. diff. of the Latitudes . . . . . 3.2650538  
 Log. of 2567.875 difference of St. *Helena* from St. *Jago* : . . . . 3.4095738  
 Or

Or if it be thought easier, when one Latitude is North, and the other South, you may add 90 degrees to each of them, the sum of the logarithm-tangents of their halves (abating twice the radius) will be the same as the difference of the logarithm-tangents of the former. For an example take the same Latitudes as in the preceding.

Then  $90^\circ + \begin{cases} 14^\circ 56' = 104^\circ 56' \\ 15^\circ 45' = 105^\circ 45' \end{cases} \left\{ \begin{array}{l} \text{it's half} \\ \end{array} \right\} \begin{cases} 52^\circ 28' \dots L. \tan. 10.1144965 \\ 52^\circ 52\frac{1}{2}' \dots L. \tan. 10.1209155 \end{cases}$   
 The sum (abating twice the radius) equal to the former difference .. 2354.120

Also when both Latitudes are of the same name, (that is both North, or both South) you may add 90 degrees to each of them, the difference of the logarithm-tangents of half these sums will be the same as of the logarithm-tangents of half the complements of those Latitudes.





O F  
**L O G A R I T H M S,**  
 T H E I R  
**Invention and Use.**

*The XIIth Chapter of that excellent Treatise of Algebra ;  
 written by the late Reverend and Learned Dr. John  
 Wallis, Savilian Professor of Geometry in the University  
 of Oxford, and Fellow of the Royal Society in London.*

**L**ogarithms were first of all invented and contriv'd (with-  
 out the Example of any before him, that I know of) by  
*John Neper*, Baron of *Merchiston* in *Scotland* ; and by him  
 first publish'd at *Edenburgh*, in the year 1614 ; and soon  
 after by himself with the assistance of *Henry Briggs*, Professor of  
 Geometry, (first at *London* in *Gresham-College*, and afterwards at  
*Oxford*) reduc'd to a better Form, and perfected.

The Invention was greedily embrac'd (and deservedly) by  
 the Learned in the Mathematics.

*Mr. Briggs*, upon the first publication of it, was so pleas'd with  
 it, that he presently repair'd into *Scotland*, to consult the Au-  
 thor, advise with him, and be assistant to him, in the perfecting  
 of it, and in calculating Tables for it ; which was a Work of  
 great labour and subtilty.

And it was quickly taken and promoted abroad by *Benjamin*  
*Uriinus*, *John Kepler*, *Adrian Ulacq*, *Petrus Crugerus*, and others.

And at home by *Henry Gellibrand*, who compleated and pub-  
 lish'd the *Trigonometria Britannica*, which *Mr. Briggs* had begun,  
 and far carried on, but dying left imperfect.

So that, in a short time, it became generally known, and greatly  
 esteem'd in all Parts, as of unspeakable Advantage ; especially for  
 ease and expedition in *Trigonometrical* Calculations.

The Foundation of it is this:

If to a Rank of continual Proportionals in a geometrical Progression from 1;

as 1. 2. 4. 8. 16. 32. 64. &c.

We accommodate a Rank of Exponents in an arithmetical Progression, from 0;

as 0. 1. 2. 3. 4. 5. 6. &c.

It is manifest, that for every multiplication or division of those Terms one by another, there may be an answerable addition or subduction of the Exponents.

For, as in the Terms, 4 multiplied by 8 makes 32; so in the Exponents, if to 2 we add 3, it makes 5; and as 32 divided by 8, gives 4; so if from 5 we subduct 3, there remains 2: And so every where.

<i>Terms</i>	1.	2.	4.	8.	16.	32.	64.
<i>Exponents</i>	0.	1.	2.	3.	4.	5.	6.
	$4 \times 8 = 32.$				$2\frac{1}{2} = 4.$		
	$2 + 3 = 5.$				$5 - 3 = 2.$		

And the same holds, if between any two of those Terms, we interpose one or more Means proportional; and between their Exponents, as many arithmetical Means.

As if between 4 and 8 (or between 2 and 16) we interpose a Mean proportional  $\sqrt{32}$ , that is  $4\sqrt{2}$ ; and between 2 and 3 (or 1 and 4) an arithmetical Mean,  $2\frac{1}{2}$ ; then as  $4\sqrt{2}$  multiplied by 8 makes  $32\sqrt{2}$ , a Mean proportional between 32 and 64; so adding their Exponents  $2\frac{1}{2}$  and 3, makes  $5\frac{1}{2}$  an arithmetical Mean between 5 and 6: And so every where.

And universally, whatsoever be the Values of  $r$  and  $e$ ; supposing

<i>The Terms,</i>	1.	$r$ .	$rr$ .	$rrr$ .	$r^4$ .	$r^5$ .	$r^6$ .	&c.
<i>Exponents,</i>	0.	$e$ .	$2e$ .	$3e$ .	$4e$ .	$5e$ .	$6e$ .	&c.

Then, as  $rrxr^3 = r^5$ , and  $rr\sqrt{r} \times rrr = r^5\sqrt{r}$ ;  
so  $2e + 3e = 5e$ , and  $2\frac{1}{2}e + 3e = 5\frac{1}{2}e$ :

And so every where, whether the Number  $e$  be positive or negative, that is, whether the Logarithm proceeds by increase or decrease: And consequently whatsoever Mean proportional we interpose between those Terms; if we also interpose between their Exponents, a like arithmetical Mean, as that is a proportional Mean; as if that be the first or second of two Means proportional, this accordingly the first or second of two Means arithmetical; if that the second of five Means proportional, this the second of as many arithmetical Means, &c. Then every addition or subduction of these one with another, will answer to a like multiplication or division of those.

And

And if for 0,  $e$ ,  $2e$ ,  $3e$ , &c. (taking  $e=1$ ) we put 0, 1, 2, 3, &c. then doth this Exponent always give us the Number of rations or dimensions in the Term to which it belongs;

1.	$r$ .	$rr$ .	$r^3$ .	$r^4$ .	$r^5$ .	$r^6$ .	$\&c$ .
0.	1.	2.	3.	4.	5.	6.	$\&c$ .

As 3 in  $r^3$ , 6 in  $r^6$ , and so every where; or shews, *How many fold (quam multiplicata)* the Proportion (for Instance) of  $r^6$  to 1, is of  $r$  to 1; that is, how many rations or proportions of  $r$  to 1, are compounded in  $r^6$  to 1, to wit, 6. To which the Name *Logarithmus* fitly answers; that is,  $\lambda\gamma\omega\nu \alpha\rho\iota\theta\mu\acute{o}\varsigma$  the *Number of Proportions so compounded*.

Now this Foundation being laid, their design in the Logarithms is this: Having selected (as most convenient) a Rank of continual Proportionals, in a decuple Progression; to wit,

1.	10.	100.	1000.	10000.	100000.	1000000.	$\&c$ .
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They fit hereunto, as their Exponents in *arithmetical Progression*,

0.	1.	2.	3.	4.	5.	6.	$\&c$ .
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(Consequently, the Logarithm of any Fraction less than 1, is to be a negative Number.) And then, for each of the Numbers interpos'd between 1 and 10, as 2, 3, 4,  $\&c$ . between 10 and 100, as 11, 12, 13,  $\&c$ . and so of the rest; they seek out (between 0 and 1, between 1 and 2,  $\&c$ .) an Exponent (to be express'd in decimal Parts) which is such a Mean arithmetical, as the other is a Mean proportional.

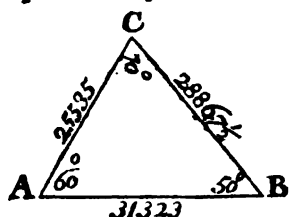
And these Exponents they call *Logarithms*, which are artificial Numbers, so answering to the natural Numbers, as that the addition and subduction of these, answer to the multiplication and division of the natural Numbers.

By this means, (the Tables being once made) the work of multiplication and division is perform'd by addition and subduction; and consequently that of squaring and cubing, by duplation and triplation; and that of extracting the Square and Cube Root, by bisection and trisection; and the like in higher Powers.

Of these Logarithms we have printed Tables, for all Numbers as far as *one hundred thousand*: So that, if any two Numbers (not exceeding 100,000) be propos'd to be multiplied or divided one by the other, the Logarithms of those Numbers (to be found in those printed Tables) being accordingly added or subducted, will give the Logarithm of that natural Number (to

be found also in those Tables) which is the Product or Quotient of such multiplication or division; and the double or treble of such Logarithm, is the Logarithm of it's Square or Cube; and the half, or third part of it, is the Logarithm of it's Square or Cube Root; and the like of higher Powers, which in large Numbers, is matter of great Expedition,

And (because a main End of their Design, was to facilitate astronomical and other trigonometrical Calculations) besides the Logarithms for Numbers in their natural order, we have also Tables of artificial or logarithmical *Sines*, *Tangents*, and *Secants*; the addition and subduction of which, answers to the multiplication and division of the *natural Sines*, *Tangents*, and *Secants*; which is a very compendious Advantage for expediting such Calculations; and is not less accurate than the operation by Tables of *natural Sines*, *Tangents*, and *Secants*.



Thus in a plain Triangle; supposing the Angles given, A 60 degrees, B 50 degrees, (and consequently, C 70 degrees) and the Side AB 31323 paces; for finding the Sides AC, or BC, we have this Proportion:

As the Sine of C, 70 degrees, —=9396926  
 to the Sine of B, 50 degrees, —=7660444  
 so is the Side AB, ————— = 31323 paces.  
 to the Side AC, ————— = 25535—paces.

For finding which, we are to multiply 7660444 by 31323, and then to divide the Product by 9396926; which gives for the Side AC almost 25535 paces.

And, as the Sine of C, 70 degrees=9396926  
 to the Sine of A, 60 degrees —=8660254  
 so is the Side AB, ————— = 31323 paces.  
 to the Side BC, ————— = 28867½ paces.

For finding which we are to multiply 8660254 by 31323, and to divide the Product by 9396926, which gives for the Side BC, 28867½ paces, *proximè*.

Now (to prevent these tedious multiplications and divisions) by Logarithms, we proceed thus;

Log. Sine C, 70 degrees—	9.9729838	or, Ar. Co.	0.0270142
Log. Sine B, 50 degrees+	9.8842540		9.8842540
Log. A B, Num 31323+	4.4958633		4.4958633
Log. AC, Num. 25535=	4.4071315		24.4071315

Where

Where subducting the first Logarithm from the Sum of the second and third, (or adding the arithmetical Complement of the first Logarithm to the second and third, subducting the Radius) gives the fourth; which (the Table tells us) answers to the Number 25535, *ferè*: So many *paces* therefore is the Side AC. Again,

Log. Sine C, 70 degrees, —	9.9729858	or, Ar. Co. 0.0270142
Log. Sine A, 60 degrees, +	9.9375306	9.9375306
Log. AB. Num. 31323 +	4.4958633	4.4958633
Log. BC. Num. 28867½ =	4.4604081	4.4604081

Where either subducting, or adding, as in the former, gives the fourth; which answers to the Number 28867½ *proximè*: So many *paces* therefore is the Side BC which operations are much more expeditious, than multiplying and dividing such large Numbers.

And in like manner, in spherical Triangles, save that there all the Logarithms are to be taken out of the Tables of *Sines*, *Tangents* and *Secants*; which, in this Example, are taken partly from thence, and partly from the Table of Numbers; but the Expedition is alike in both.

This was first publish'd by the Lord *Neper* (the first Inventor of them) in the year 1614, under the Title of *Mirificus Logarithmorum Canon*, with it's Description and Use; but reserving the manner of construction, and it's demonstration, to be after publish'd; this being but an *Essay*, set forth, to see the Judgment of learned Men concerning this Design, and how it was like to be receiv'd.

In this, we have a Canon or Table of natural and logarithmical *Sines*, for each degree and minute of the Quadrant.

And whereas it was at his choice to give to what Number he pleas'd the Logarithm 0, and whether to proceed by way of increase or decrease, he chose to make 0 the Logarithm of the whole Sine 10000000, that so the multiplication or division by the whole Sine ( frequent in trigonometrical Calculation) might be dispatch'd without trouble, requiring here but the addition or subduction of 0.

And because the Use of the Sines and Numbers, less than the Radius or whole Sine, were likely to be of more frequent use, than of Tangents, Secants, and other Numbers greater than the Radius, he chose to give to those lesser Numbers affirmative Logarithms (increasing the Logarithms from 0, as the Sines decrease) which he calls *Abundantes*; and consequently the negative Logarithms ( which he calls *Defectives*) to greater Numbers; designing those by +, these by—.

And by this means, he directs how this Table of *Sines* (with the Differences there inserted) may serve also for a Table of *Tangents*

*Tangents* and of *Secants*; So that this Canon, is a compleat Canon of *natural Sines*, and of *logarithmical Sines, Tangents, and Secants*: He shews also how this Table may be applied to the *Logarithms* of absolute Numbers, but because with some trouble, he reserves the fuller account hereof to a farther Treatise.

In the year 1619, the Lord *Neper* being then dead, the same was again publish'd by his Son *Robert Neper*; with some posthumous Treatises of his Father, concerning the Construction of this logarithmical Canon, and his design (after communication had with Mr. *Briggs*) of changing the form of *Logarithms*, making 0 to be the *Logarithm* of 1, (of which he had before given notice in the Preface to his *Rabdologia*, publish'd in the year 1617;) and concerning some things pertaining to *Trigonometry*; with some *Lucubrations* of Mr. *Briggs's* on the same Subject.

But the Lord *Neper* being dead, the whole Work was devolv'd on Mr. *Briggs*, who (according to their joint advice) making the *Logarithm* of 1 to be 0, and of 10, 100, 1000, &c. to be 1, 2, 3, &c. which he calls *Indices*, or *Characteristicks*, and which we may repute as *integer Numbers*, with fourteen ciphers annex'd, which we may repute as so many places of decimal *Fractions*, below the place of Units, or of the *Characteristick*: And between these he fits the intermediate *Logarithms* for the intermediate Numbers.

And consequent to the *Logarithm* of 1 being 0, the *Logarithms* of *Fractions* less than 1, or of Numbers intermediate between 1 and 0, must be negative Numbers, or Numbers less than 0, (which he calls defective *Logarithms*) denoted by—(the Note of Negation) prefix'd.

Now these defective *Logarithms* may be two ways express'd; either so as that the Note of Negation shall affect the whole *Logarithm*, or so as to affect only the *Characteristick*, leaving the rest of the *Logarithm* to be understood as affirmative.

As for Example, The Fraction  $\frac{3}{8}$ , or (which is equivalent) 0.375: This Fraction supposeth the Numerator 3 to be divided by the Denominator 8, which in *Logarithms* is to be perform'd by subtracting the *Logarithm* of 8, from that of 3, and the Remainder will be the *Logarithm* of  $\frac{3}{8}$ , which will then be the negative Number,—0.4259687.

Or thus; for as much as the *Logarithm* of 375, (supposing it to be an integer Number) is 2.5740313; and the depressing this to the first, second, third, or farther place of decimal *Fractions*, doth (without altering the Figures) divide the Value by

by 10, 100, 1000, &c. which in Logarithms is done by subtracting 1, 2, 3, &c. from the Characteristick, or place of Integers; 1, 2, 3, &c. in that place, being the Logarithms of 10, 100, 1000, &c. such Alteration of the Value (the Figures remaining) is done by only altering the Characteristick of the Logarithm, without varying the other Figures, in this manner; where the mark— is put over to distinguish it from the former.

Log. of 3750 is	3.5740313
Log. 375	2.5740313
Log. 37.5	1.5740313
Log. 3.75	0.5740313
Log. 0.375	1.5740313
Log. 0.0375	2.5740313

Which two Forms, tho' they seem different, and some may rather choose the one, some the other; or in some cases the one, and in some cases the other; yet they are in Substance or Value the same:

$$\begin{array}{r} \text{For } -1.0000000 \\ \quad +0.5740313 \\ \hline \text{is } = -0.4259687; \end{array}$$

And every one is left to his liberty, whether of the two ways (or what other equivalent thereunto) he shall please to use.

In this method Mr. Briggs, hath calculated a Table of Logarithms, (publish'd in the year 1624) for 20 Chiliads of absolute Numbers, from 1 to 20,000; and again for 10 more from 90,000 to 100,000, and one Chiliad supernumerary, to wit, from 100,000 to 101,000; that is 31 Chiliads in all; before which is prefix'd, a large account of the Nature and Construction of this logarithmical Canon, and the Uses thereof; with Direction how to supply the intermediate Chiliads, which are here wanting: The whole intitled, *Arithmetica Logarithmica*.

The same was again publish'd in 1628, by *Adrian Vlacq* (or *Flack*;) with a Supplement (as Mr. Briggs had directed) of the Chiliads before omitted; that is, in all, of 100 Chiliads, with one supernumerary; but in shorter Number, extended but to 10 places, besides that of the Integers, or the Characteristick: And he subjoins also a logarithmical Canon of *Sines*, *Tangents*, and *Secants* for degrees and minutes of the Quadrant to as many places.

Mr. Briggs proceeded to calculate a trigonometrical Canon logarithmical, suited to that of the Logarithms for absolute Numbers, extending (as in that other) to 14 places, besides the Characteristick: And having before calculated a Table of *natural Sines*, *Tangents* and *Secants* for degrees and centesmes of degrees in Numbers extending to 15 places, he fitted thereunto a Canon of *logarithmical Sines* and *Tangents* (omitting the

*Secants*,

↓

*Secants* as less needful;) and a Treatise prefix'd, concerning the Construction thereof, with other things pertinent thereunto; and intended a farther Treatise concerning the Use of it.

But dying before this last was finish'd, or the rest publish'd, Mr. *Henry Gellibrand* supplied this latter, and publish'd the whole, with the Title of *Trigonometria Britannica*, in the year 1633: To which is subjoin'd another Canon of *logarithmical Sines* and *Tangents*, by *Adrian Vlacq*, for degrees, minutes, and tenth seconds, extending (as his former did) to 10 places, besides the Characteristick; and Mr. *Briggs's* 20 Chiliads for Logarithms of absolute Numbers.

So that the whole Doctrine of Logarithms was by this time sufficiently perfected, with convenient Canons or Tables fitted thereunto, in large Numbers; of which also *Petrus Crugerus* gives an account in the Preface to his *Trigonometria Logarithmica*, printed in the year 1634; with his logarithmical Tables, but in shorter Numbers.

And the Tables of Logarithms above mention'd, (for 100 Chiliads of absolute Numbers, and for Sines and Tangents to degrees and centesimes) were the same year 1633, contracted into a lesser Form, and more manageable (but in shorter Numbers, the former not extending to above 7 places, besides the Characteristick, but the latter to 10) by *Nathaniel Roe*; with Directions for the Use of them in Trigonometry, Geometry, Astronomy, Geography, and Navigation, by *Edmund Wingate*.

In the mean time, *Benjamin Ursinus* did also publish Tables of Logarithms, in the year 1618; and again in the year 1625, in his *Trigonometria*; and *Johannes Keplerus* also in the year 1624, in his *Chilias Logarithmorum* which he applies also to his *Rudolphine Tables*, publish'd in 1627; and *Claudius Baischius* about the same time, or soon after; and *Georgius Ludovicus Frobenius*, in the year 1634, and perhaps some others: But all or most of them, in short Numbers; and conformable to the Lord *Neper's* first Design; not to that Form which, upon second thoughts, he and Mr. *Briggs* agreed upon as most eligible, and which hath since been receiv'd in common practise.

Since which time, much hath not been added to the Doctrine of Logarithms; nor was it necessary, that Work having obtain'd sufficient perfection.

But in case Logarithms, on any emergent occasion, be desir'd with greater exactness, and in larger Numbers than those printed Tables do afford; Mr. *Nicholas Mercator*, in a small Treatise called *Logarithmotechnia*, and Mr. *James Gregory* in his *Exercitationes Geometricæ*, both printed in the year 1668, shew (with great subtilty) how it may be effected, in Numbers of whatsoever length requir'd, with much more ease than heretofore. Thole

Those that would see more of the Construction and Use of Logarithms; may consult the fore-mention'd Authors, especially *Briggs's Arithmetica Logarithmica*, and the *Trigonometria Britannica* of *Briggs* and *Gellibrand*; as also what *Adrian Vlacq* and *Peter Crugerus* have writ upon this Subject.

But I shall add, that by Logarithms may very expeditiously be solv'd all Cases of compound Interest, (*Examples of which follow the Tables*) and that known Question about the continual doubling of an Unit, which is frequently propos'd of a Horse to be sold according to the number of nails in his shoes: For setting the first nail at a very small price, and the second at double the price of the first, and the third at double the price of the second; and so on, continually doubling for every nail; we shall come at last to a vastly great Sum.

The first occasion of which Question, may be what I have cited, *Cap. 13.* of my *Opus Arithmeticum*, from *Alfephad* (an *Arabic* Writer) in his *Commentaries* upon *Tograius's Verses*: Namely, that one *Sessa* an *Indian* having first found out the Game of *Cheffe*, and shew'd it to his Prince *Sbebram*: The King, who was highly pleas'd with it, bid him ask what he would for the reward of his Invention; whereupon he ask'd that for the first little square of the Chess-board, he might have one grain of wheat given him; for the second, two; and so on doubling continually, according to the number of squares in the Chess-board, which was 64: And when the King, who intended to give a very noble reward, was much displeas'd, that he had ask'd so trifling an one; *Sessa* declar'd, that he would be contented with this small one: So the reward he had fix'd upon, was order'd to be given him: But the King was greatly astonish'd, when he found that this would rise to so vast a quantity, that the whole Earth it self could not furnish out so much wheat: But how great the number of these grains is, may be found by doubling one continually 63 times, whereby we shall get the number, which comes in the last place; and then one time more yet, subtracting 1, to have the Sum of all; for the double of the last Term, less by one, is the Sum of all: Now this will be most expeditiously done by Logarithms, and near enough to truth for this purpose: For if to the Logarithm of 1, which is 0, we add the Logarithm of 2 (which is 0.301029995664 —) multiplied by 64, the product 19.26591972496 — is the Logarithm of the double of the last Term, which may be found greater than 18446 74407 00000 00000, and less than 18446 74408 00000 00000.

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A most compendious and facile Method  
 F O R  
**Constructing the Logarithms**  
 exemplified and demonstrated .  
**From the Nature of Numbers,**  
 without any regard to the *Hyperbola* :

With a speedy Method for finding the Number from the  
 Logarithm given. *Phil. Trans.* N<sup>o</sup>. 216.

By EDM. HALLET, (now) LL.D. Ast. Reg. & R.S.S.

**T**HE Invention of *Logarithms* is justly esteem'd one of the most useful discoveries in the art of Numbers, and accordingly has had an universal reception and applause: And the great *Geometricians* of this Age have not been wanting to cultivate this subject with all the accuracy and subtilty a matter of that consequence doth require; and they have demonstrated several very admirable properties of these *Artificial Numbers*, which have render'd their construction much more facile, than by those operose methods, at first us'd by their truly noble Inventor, the Lord *Neper*; and our worthy Country-man, Mr. *Briggs*.

But notwithstanding all their endeavours, I find very few of those, who make constant use of *Logarithms*, to have attain'd an adequate notion of them; to know how to make or examine them, or to understand the extent of the use of them; contenting themselves with the Tables of them, as they find them, without daring to question them; or caring to know how to rectify them, should they be found amiss; being, I suppose, under the apprehension of some great difficulty therein: For the sake of such, the following Tract is principally intended;

tho'

tho' not without hopes, however, to produce something that may be acceptable to the most knowing in these matters.

But first, it may be requisite to premise a Definition of *Logarithmus*, in order to render the ensuing Discourse more clear; the rather; because the old one, *Numerorum proportionalium equi-differentes comites*, seems too scanty to define them fully: They may much more properly be said to be *Numeri rationem exponentes*; wherein we consider *ratio* as *Quantitas sui generis*, beginning from the *ratio* of equality, or 1 to 1 = 0; being affirmative, when the *ratio* is increasing, as of Unity to a greater Number; but negative, when decreasing: And these *rationes* we suppose to be measur'd by the number of *ratiunculae*, contain'd in each. Now these *ratiunculae* are so to be understood, as in a continued Scale of Proportionals, infinite in number between the two terms of the *ratio*; which infinite number of mean Proportionals is to that infinite number of the like and equal *ratiunculae* between any other two terms, as the Logarithm of the one *ratio* is to the Logarithm of the other. Thus if there be suppos'd between 1 and 10 an infinite Scale of mean Proportionals, whose Number is 100000 &c. *in infinitum*; between 1 and 2 there shall be 30102 &c. of such Proportionals; and between 1 and 3 there will be 47712 &c. of them; which Numbers therefore are the Logarithms of the *rationes* of 1 to 10, 1 to 2, and 1 to 3; and not so properly to be call'd the Logarithms of 10, 2 and 3.

But if instead of supposing the Logarithms compos'd of a number of equal *ratiunculae*, proportional to each *ratio*; we shall take the *ratio* of Unity to any Number, to consist always of the same infinite number of *ratiunculae*, their magnitudes in this case, will be as their Number in the former. Wherefore if between Unity and any Number propos'd, there be taken any infinity of mean Proportionals, the infinitely little augment or decrement of the first of those means from Unity, will be a *ratiuncula*, that is, the *momentum* or *fluxion* of the *ratio* of Unity to the said Number: And seeing that in these continual Proportionals all the *ratiunculae* are equal, their sum, or the whole *ratio*, will be as the said *momentum* is directly; that is, the Logarithm of each *ratio* will be as the fluxion thereof. Wherefore, if the Root of any infinite Power be extract'd out of any Number, the *differentiola* of the said Root from Unity, shall be as the Logarithm of that Number. So that Logarithms, thus produc'd, may be of as many forms as you please to assume infinite *Indices* of the Power whose Root you seek: As if the *Index* be suppos'd 100000 &c. infinitely, the Roots shall be the Logarithms invented by the Lord *Neper*; but if the said *Index* were 2302585 &c. Mr. *Briggs's* Logarithms would immediately be produc'd: And if you please

to stop at any number of figures, and not to continue them on, it will suffice to assume an *Index* of a figure or two more than your intended Logarithm is to have; as Mr. Briggs did, who, to have his Logarithms true to 14 places, by continual extraction of the Square Root, at last came to have the Root of the 140737488355328th Power; but how operose that extraction was, will be easily judg'd by whofo shall undertake to examine his *Calculus*.

Now, tho' the notion of an infinite Power may seem very strange, and to those that know the difficulty of the extraction of the Roots of high Powers, perhaps impracticable; yet by the help of that admirable Invention of Mr. Newton, whereby he determines the *Uncie*, or Numbers prefix'd to the members composing Powers (on which the Doctrine of *Series* chiefly depends) the Infinity of the *Index* contributes to render the expression much more easy; For if the infinite Power to be resolv'd be put (after Mr. Newton's Method)

$$\overline{p+pq}, \overline{p+pq}^{\frac{1}{m}} \text{ or } \overline{1+q}^{\frac{1}{m}}, \text{ instead of } 1 + \frac{1}{m}q + \frac{1-m}{2mm}qq + \frac{1-3m+2mm}{6m^3}q^3 + \frac{1-6m+11mm-6m^3}{24m^4}q^4, \text{ \&c. (which is the}$$

Root when  $m$  is finite) becomes  $1 + \frac{1}{m}q - \frac{1}{2m}qq + \frac{1}{3m}q^3 - \frac{1}{4m}q^4 + \frac{1}{5m}q^5$  &c.  $mm$  being infinite infinite, and consequently whatsoever is divided thereby vanishing: Hence it follows; that  $\frac{1}{m}$

multiplied into  $q - \frac{1}{2}qq + \frac{1}{3}q^3 - \frac{1}{4}q^4 + \frac{1}{5}q^5$  &c. is the augment of the first of our mean Proportionals between Unity and  $1+q$ , and is therefore the Logarithm of the *ratio* of 1 to  $1+q$ ; and whereas the infinite Index  $m$  may be taken at pleasure, the several

Scales of Logarithms to such *Indices*, will be as  $\frac{1}{m}$  or reciprocally as the *Indices*. And if the *Index* be taken 10000 &c. as in the case of *Neper's* Logarithms, they will be simply  $q - \frac{1}{2}qq + \frac{1}{3}q^3 - \frac{1}{4}q^4 + \frac{1}{5}q^5 - \frac{1}{6}q^6$  &c.

Again, if the Logarithm of a decreasing *ratio* be sought, the infinite Root of  $1-q$ , or  $\overline{1-q}^{\frac{1}{m}}$  is  $1 - \frac{1}{m}q - \frac{1}{2m}q^2 - \frac{1}{3m}q^3 - \frac{1}{4m}q^4 - \frac{1}{5m}q^5 - \frac{1}{6m}q^6$  &c. whence the decrement of the first of our infinite Number of Proportionals will be  $\frac{1}{m}$  into  $q + \frac{1}{2}qq + \frac{1}{3}q^3 + \frac{1}{4}q^4 + \frac{1}{5}q^5 + \frac{1}{6}q^6$  &c, which therefore will be as the  
Logarithm

Logarithm of the *ratio* of Unity to  $1-q$ : But if  $m$  be put 10000 &c. then the said Logarithm will be  $q + \frac{1}{2}qq + \frac{1}{3}q^3 + \frac{1}{4}q^4 + \frac{1}{5}q^5 + \frac{1}{6}q^6$  &c.

Hence the terms of any *ratio* being  $a$  and  $b$ ,  $q$  becomes  $\frac{b-a}{a}$  or the difference divided by the lesser term, when it is an increasing *ratio*; or  $\frac{b-a}{b}$  when 'tis decreasing, or as  $b$  to  $a$ .

Whence the Logarithm of the same *ratio* may be doubly express'd; for putting  $x$  for the difference of the terms  $a$  and  $b$ , it will be

$$\text{either } \frac{1}{m} \text{ into } \frac{x}{b} + \frac{xx}{2bb} + \frac{x^3}{3b^3} + \frac{x^4}{4b^4} + \frac{x^5}{5b^5} + \frac{x^6}{6b^6} \text{ \&c.}$$

$$\text{or } \frac{1}{m} \text{ into } \frac{x}{a} - \frac{xx}{2aa} + \frac{x^3}{3a^3} - \frac{x^4}{4a^4} + \frac{x^5}{5a^5} - \frac{x^6}{6a^6} \text{ \&c.}$$

But if the *ratio* of  $a$  to  $b$  be suppos'd divided into two parts, viz. into the *ratio* of  $a$  to the arithmetical Mean between the terms, and the *ratio* of the said arithmetical Mean to the other term  $b$ , then will the sum of the Logarithms of those two *rationes* be the Logarithm of the *ratio* of  $a$  to  $b$ ; and substituting  $\frac{1}{2}x$ , instead of  $\frac{1}{2}a + \frac{1}{2}b$ , the said arithmetical Mean, the Logarithms of those *rationes* will be, by the foregoing Rule,

$$\frac{1}{m} \text{ in } \frac{x}{z} + \frac{xx}{2xz} + \frac{x^3}{3z^3} + \frac{x^4}{4z^4} + \frac{x^5}{5z^5} + \frac{x^6}{6z^6} \text{ \&c. and}$$

$$\frac{1}{m} \text{ in } \frac{x}{z} - \frac{xx}{2xz} + \frac{x^3}{3z^3} - \frac{x^4}{4z^4} + \frac{x^5}{5z^5} - \frac{x^6}{6z^6} \text{ \&c.}$$

---


$$\text{Sum } \frac{1}{m} \text{ in } \frac{2x}{z} \quad * \quad + \frac{2x^3}{3z^3} \quad * \quad + \frac{2x^5}{5z^5} \quad * \quad + \frac{2x^7}{7z^7} \text{ \&c.}$$

will be the Logarithm of the *ratio* of  $a$  to  $b$ , whose difference is  $x$ , and sum  $z$ ; and this *Series* converges twice as swift as the former, and therefore is more proper for the practice of making of Logarithms; which it performs with that expedition, that where  $x$  the difference is but the hundredth part of the sum, the first step

$\frac{2x}{z}$  suffices to seven places of the Logarithm, and the second step to twelve; but if Briggs's first twenty Chiliads of Logarithms be suppos'd made, as he has very carefully computed them, to fourteen places, the first step alone is capable to give the Logarithm of any intermediate Number true to all the places of those Tables.

After the same manner may the difference of the said two Logarithms be very fitly applied to find the Logarithms of prime Numbers,

Numbers, having the Logarithms of the two next Numbers above and below them; for the difference of the *ratio* of  $a$  to  $\frac{1}{2}z$ , and of  $\frac{1}{2}z$  to  $b$  is the *ratio* of  $ab$ , to  $\frac{1}{4}xz$ , and the half of that *ratio* is that of  $\sqrt{ab}$  to  $\frac{1}{2}z$ , or of the geometrical Mean to the arithmetical; and consequently the Logarithm thereof will be the half difference of the Logarithms of those *rationes*, viz.

$$\begin{array}{ccccccc} 1 & & x^2 & & x^4 & & x^6 & & x^8 & & \&c. \\ \text{---into---} & + & & + & & + & & + & & & \\ m & & 2xz & & 4x^2 & & 6x^4 & & 8x^6 & & \end{array}$$

which is a *Theorem* of good dispatch to find the Logarithm of  $\frac{1}{2}z$ . But the same is yet much more advantageously perform'd by a Rule deriv'd from the foregoing; and beyond which (in my opinion) nothing better can be hop'd: For the *ratio* of  $ab$  to  $\frac{1}{4}xz$ , or  $\frac{1}{4}aa + \frac{1}{4}ab + \frac{1}{4}bb$ , has the difference of it's terms  $\frac{1}{4}aa - \frac{1}{4}ab + \frac{1}{4}bb$ , or the Square of  $\frac{1}{4}a - \frac{1}{4}b = \frac{1}{4}xx$ , which in the present case of finding the Logarithms of prime Numbers, is always Unity; and calling the sum of the terms  $\frac{1}{4}xz + ab = yy$ , the Logarithm of the *ratio* of  $\sqrt{ab}$  to  $\frac{1}{2}a + \frac{1}{2}b$  or  $\frac{1}{2}z$  will be found

$$\begin{array}{ccccccc} 1 & & 1 & & 1 & & 1 & & 1 & & 1 \\ \text{---in---} & + & & + & & + & & + & & + & \\ m & & yy & & 3y^6 & & 5y^{10} & & 7y^{14} & & 9y^{18} & & \&c. \end{array}$$

which converges very much faster than any *Theorem* hitherto publish'd for this purpose.

Here note, that  $\frac{1}{m}$  is all along applied to adapt these Rules to all sorts of Logarithms. If  $m$  be 10000 &c. it may be neglected, and you will have *Neper's* Logarithms, as was hinted before; but if you desire *Briggs's* Logarithms, which are now generally receiv'd, you must divide your Series by

$$\begin{array}{l} 2.30258,50929,94045,68401,79914,54684,36420,76011,01488,62877,29760,33328, \\ \text{or multiply it by the reciprocal thereof, viz.} \\ 0.43429,44819,03251,82765,11289,18916,60508,22943,97005,80366,65661,14454. \end{array}$$

But to save so operose a multiplication (which is more than all the rest of the work) it is expedient to divide this multiplier by the Powers of  $z$  or  $y$  continually, according to the direction of the *Theorem*, especially where  $x$  is small and integer, reserving the proper quotes to be added together, when you have produc'd your Logarithm to as many figures as you desire, of which method I will give a Specimen.

If the curiosity of any Gentleman, that has leisure, would prompt him to undertake to do the Logarithms of all prime Numbers under 100000 to 25 or 30 figures, I dare assure him that the facility of this method will invite him thereto; nor can any thing more easy be desir'd. And to encourage him, I here give

give the Logarithms of the first prime Numbers, under 20, to sixty places, computed by the accurate Mr. *Abraham Sharp*, as they were communicated to me by our common Friend, Mr. *Euclid Speidall*.

*Note*, As the Logarithms of all the Primes under 1100, have since been computed by a double operation, and publish'd by the said Mr. *Sharp* in his *Geometry Improv'd*, to 61 places, together with those of all other Numbers to 100, and from 999990 to 1000010; from whence they are inserted in the 36th and 4 following pages of this Work; therefore the Logarithms of the Primes under 20 are here omitted.

The next prime Number is 23, which I will take for an example of the foregoing Doctrine; and by the first Rules, the Logarithm of the ratio of 22 to 23 will be found to be,

$$\text{either } \frac{1}{22} - \frac{1}{968} + \frac{1}{31944} - \frac{1}{937024} + \frac{1}{25768160} \&c.$$

$$\text{or } \frac{1}{23} + \frac{1}{1058} + \frac{1}{36501} + \frac{1}{1119364} + \frac{1}{32181715} \&c.$$

As likewise that of the ratio of 23 to 24, by a like process,

$$\text{either } \frac{1}{23} - \frac{1}{1058} + \frac{1}{36501} - \frac{1}{1119364} + \frac{1}{32181715} \&c.$$

$$\text{or } \frac{1}{24} + \frac{1}{1152} + \frac{1}{41472} + \frac{1}{1327104} + \frac{1}{39813120} \&c.$$

And this is the result of the Doctrine of *Mercator*, as improv'd by the learned Dr. *Wallis*. But by the second Theorem,

*viz.*  $\frac{2x}{x} + \frac{2x^3}{3x^3} + \frac{2x^5}{5x^5} \&c.$  The same Logarithms are obtain'd by fewer steps; to wit,

$$\text{either } \frac{2}{45} + \frac{2}{273375} + \frac{2}{922640625} + \frac{2}{2015086171875} \&c.$$

$$\text{or } \frac{2}{47} + \frac{2}{311469} + \frac{2}{1146725035} + \frac{2}{3546361843241} \&c.$$

Which was invented and demonstrated in the hyperbolick Spaces, analogous to the Logarithms, by the excellent Mr. *James Gregory* in his *Exercitationes Geometricæ*, and since further prosecuted by the aforesaid Mr. *Speidall*, in a late Treatise in *English* by him publish'd on this subject: But the demonstration, as I conceive was never till now perfected, without the consideration of the *Hyperbola*, which, in a matter purely arithmetical, as this is, cannot so properly be applied. But what follows, I think, I may more justly claim as my own, *viz.* that the Logarithm of the

†

ratio

ratio of the geometrical Mean to the arithmetical, between 22 and 24, or of  $\sqrt{528}$  to 23, will be found to be,

$$\text{either } \frac{1}{1058} + \frac{1}{1119364} + \frac{1}{888215334} + \frac{1}{626487882248} \text{ \&c.}$$

$$\text{or } \frac{1}{1057} + \frac{1}{3542796579} + \frac{1}{6596976558485285} \text{ \&c.}$$

All these *Series* being to be multiplied into 0.4342944819 &c. if you design to make the Logarithm of *Briggs*. But with great advantage, in respect of the work, the said 4342944819 &c. is divided by 1057, and the quotient thereof again divided by three times the square of 1057, and that quotient again by  $\frac{1}{3}$  of that square, and that quotient by  $\frac{2}{3}$  thereof, and so forth, till you have as many figures of your Logarithm as you desire.

As for example, the Logarithm of the geometrical Mean between 22 and 24, is found by the Logarithms of 2, 3 and 11, to be

		1.36131696126690612945009172669805
	1057)43429 &c.(	41087462810146814347315886368
3 in	1117249)41087 &c.(	12258521544181829460074
$\frac{3}{4}$ in	1117249)12258 &c.(	6583235184376175
$\frac{7}{8}$ in	1117249)65832 &c.(	4208829765
$\frac{2}{3}$ in	1117249)42088 &c.(	2930
	Summa	1.36172783601759287886777711225117

Which is the Logarithm of 23 to thirty two places, and obtain'd by five divisions, with very small divisors; all which is much less work, than simply multiplying the *Series* into the said multiplicator 43429 &c.

Before I pass on to the converse of this Problem, or to shew how to find the Number appertaining to a Logarithm assign'd, it will be requisite to advertise the Reader, that there is a small mistake in the aforesaid Mr. *James Gregory's Vera Quadratura Circuli & Hyperbola*, publish'd at Padua, Anno 1667, wherein he applies his *Quadrature* of the *Hyperbola* to the making the Logarithms: In page 48, he gives the computation of the Lord *Neper's* Logarithm of 10, to five and twenty places, and finds it 2302585092994045624017870, instead of 2302585092994045684017991; erring in the eighteenth figure, as I was assur'd upon my own examination of the Number I here give you, and by comparison thereof with the same wrought by another hand, agreeing therewith to 57 of the 60 places. Being desirous to be satisfied how this difference arose, I took the no small trouble of examining Mr. *Gregory's* Work; and at length found, that in the inscribed *Polygon* of 512 sides, in the eighteenth figure was a 0 instead of 9, which being rectified, and

and the subsequent work corrected therefrom, the result did agree to an Unit with our Number: And this I propose, not to cavil at an easy mistake in managing of so vast Numbers, especially by a hand that has so well deserv'd of the mathematical Sciences; but to shew the exact coincidence of two so very differing methods of making Logarithms, which might otherwise have been question'd.

From the Logarithm given, to find what *ratio* it expresses, is a Problem, that has not been so much consider'd as the former, but which is solv'd with the like ease, and demonstrated by a like process, from the same general Theorem of Mr. Newton: For as the Logarithm of the *ratio* of 1 to  $1+q$  was prov'd to be  $\overline{1+q}^{\frac{1}{m}} - 1$ , and that of the *ratio* of 1 to  $1-q$ , to be  $1 - \overline{1-q}^{\frac{1}{m}}$ ; so the Logarithm, which we will from henceforth call  $L$ , being

given,  $1+L$  will be equal to  $\overline{1+q}^{\frac{1}{m}}$  in the one case; and  $1-L$ , will be equal to  $\overline{1-q}^{\frac{1}{m}}$  in the other; consequently  $\overline{1+L}^m$  will be

equal to  $1+q$ , and  $\overline{1-L}^m$  to  $1-q$ ; that is, according to Mr. Newton's said Rule,  $1+mL+\frac{1}{2}m^2L^2+\frac{1}{6}m^3L^3+\frac{1}{24}m^4L^4+\frac{1}{120}m^5L^5$  &c.  $=1+q$ , and  $1-mL+\frac{1}{2}m^2L^2-\frac{1}{6}m^3L^3+\frac{1}{24}m^4L^4-\frac{1}{120}m^5L^5$  &c.  $=1-q$ ,  $m$  being any infinite Index whatsoever; which is a full and general Proposition from the Logarithm given to find the Number, be the Species of Logarithm what it will. But if Naper's Logarithm be given, the multiplication by  $m$  is sav'd (which multiplication is indeed no other than reducing the other Species to his) and the Series will be more simple, viz.  $1+L+\frac{1}{2}LL+\frac{1}{6}L^3+\frac{1}{24}L^4+\frac{1}{120}L^5$  &c. or  $1-L+\frac{1}{2}LL-\frac{1}{6}L^3+\frac{1}{24}L^4-\frac{1}{120}L^5$  &c. This Series, especially in great numbers, converges so slowly, that it were to be wish'd it could be contracted.

If one term of the *ratio*, whereof  $L$  is the Logarithm, be given, the other term will easily be had by the same Rule: For if  $L$  was Naper's Logarithm of the *ratio* of  $a$  the lesser, to  $b$  the greater term,  $b$  would be the product of  $a$  into  $1+L+\frac{1}{2}LL+\frac{1}{6}L^3$  &c.  $=a+aL+\frac{1}{2}aLL+\frac{1}{6}aL^3$  &c.; but if  $b$  was given,  $a$  would be  $=b-bL+\frac{1}{2}bLL-\frac{1}{6}bL^3$  &c. whence, by the help of the *Obliques*, the Number appertaining to any Logarithm will be exactly had to the utmost extent of the Tables. If you seek the nearest next Logarithm, whether greater or lesser, and call it's number  $a$  if lesser, or  $b$  if greater than the given  $L$ , and the difference thereof from the said nearest Logarithm you call  $l$ ; it will follow, that the Number answering to the Logarithm  $L$  will be either  $a$  into  $1+l+\frac{1}{2}ll+\frac{1}{6}l^3+\frac{1}{24}l^4+\frac{1}{120}l^5$  &c. or else  $b$  into  $1-l+\frac{1}{2}ll-\frac{1}{6}l^3+\frac{1}{24}l^4-\frac{1}{120}l^5$  &c. wherein as  $l$  is less, the Series will

will converge the swifter. And if the first 20000 Logarithms be given to fourteen places, there is rarely occasion for the first three steps of this *Series* to find the Number to as many places. But as for *Nacq's* great Canon of 100000 *Logarithms*, which is made but to ten places, there is scarce ever need for more than the first step  $a+al$ , or  $a+mal$  in one case, or else  $b-bl$ , or  $b-mbl$  in the other, to have the Number true to as many figures as those *Logarithms* consist of.

If future industry shall ever produce logarithmic Tables to many more places than now we have them, the aforesaid *Theorems* will be of more use to deduce the correspondent Numbers to all the places thereof. In order to make the first *Cibiliad* serve all uses, I was desirous to contract this *Series*, wherein all the powers of  $l$  are present, into one, wherein each alternate power might be wanting; but found it neither so simple or uniform as the other; yet the first step thereof is, I conceive, most commodious for practice, and withal exact enough for Numbers not exceeding fourteen places, such as are Mr. Briggs's large Table of Logarithms; and therefore I recommend it to common use.

It is thus:  $a + \frac{al}{1 - \frac{1}{2}l}$  or  $b - \frac{bl}{1 + \frac{1}{2}l}$  will be the Number answering

to the Logarithm given, differing from the truth but by one half of the third step of the former *Series*. But that which renders it more eligible, is, that with equal facility it serves for Briggs's, or any other sort of Logarithms, with the only variation of writing

$\frac{l}{m}$  instead of  $l$ , that is,  $a + \frac{al}{m - \frac{1}{2}l}$  and  $b - \frac{bl}{m + \frac{1}{2}l}$ , or  $\frac{\frac{1}{m}a + \frac{1}{2}l a}{\frac{1}{m} - \frac{1}{2}l}$

and  $\frac{\frac{1}{m}b - \frac{1}{2}l b}{\frac{1}{m} + \frac{1}{2}l}$ , which are easily resolv'd into analogica, viz.

as  $434298\&c. - \frac{1}{2}l$  to  $434298\&c. + \frac{1}{2}l$  so is  $a$  to the Number or, as  $434298\&c. + \frac{1}{2}l$  to  $434298\&c. - \frac{1}{2}l$  so is  $b$  sought.

If more of this *Series* be desir'd, it will be found as follows,

$a + \frac{al}{1 - \frac{1}{2}l} - \frac{\frac{1}{2}al^2}{1 - l} + \frac{\frac{1}{6}al^3}{1 - 2l}$  &c. as may easily be demonstrated, by working out the divisions in each step, and collecting the quotes, whose sum will be found to agree with our former *Series*.

Thus, I hope, I have clear'd up the Doctrine of *Logarithms*, and shewn their construction and use independent from the *Hyperbola*, whose affections have hitherto been made use of for this purpose, tho' this be a matter purely *Arithmetical*, nor properly demonstrable from the Principles of *Geometry*: Nor have I been oblig'd to have recourse to the method of indivisibles, or the Arithmetick of infinites; the whole being no other than an easy *Corollary* to Mr. Newton's general *Theorem* for forming roots and powers. *Easy*

*Easy and compendious Methods of making Logarithms, by Mr. Abr. Sharp, of Little-Horton near Bradford, Yorkshire.*

**T**O the making of *Logarithms*, the first thing requisite is to find the natural *Logarithms* of two or three of the least and first prime Numbers, *viz.* of 2, 3 and 5, or rather 10, by the reciprocal of which *Briggs's* (that are the most useful *Logarithms*) are compos'd.

The *Logarithm* of 1 being 0; that of 2, the next prime, is first requir'd; but to attempt to raise that directly and immediately, would be so very laborious and tedious a task (much more the greater primes) that 'tis more expedient to use such fractional Numbers as lie between 1 and 2, by the multiplication whereof 2, 3 and 5 may be produc'd; of which (in the design'd method) those are most convenient, whose numerators exceed the denominators only by an Unit, since hereby multiplication is wholly avoided.

*The Rule for making the natural Logarithms of such improper fractions, may be this.*

Add an Unit to twice the denominator, the Sum (which is the Sum of the numerator and denominator) shall be the divisor; and the excess of the numerator above the denominator (in this case always 1) the dividend: The Powers of this simple fraction, compos'd of this divisor and dividend must be rais'd by a continual division, till the *Series* run out to such a number of figures as are requir'd; but because none but the odd Powers are of use let the first quotient, and all the rest successively, be divided by the square of the first divisor: The Powers thus rais'd, divide each respectively by it's proper Index, *i. e.* the 1<sup>st</sup> by 1, the 2<sup>d</sup> by 3, the 3<sup>d</sup> by 5, &c. the sum of all these quotients will be the natural *Logarithm* of the fraction propos'd.

Because the *Logarithms* of the primes 2, 3 and 5, are sought, which are mutually subservient to the composing each other, no fewer than three *Series* can suffice; therefore three improper fractions must be chosen, with two of these primes in each. And tho' the fractions nearest 2, as  $\frac{1}{2}$ ,  $\frac{1}{3}$  and  $\frac{1}{5}$ , require the greatest labour in raising their several *Series*; yet from them, when completed, the *Logarithms* of the desir'd primes are most easily deduc'd: For in fractions, that approach nearer 1 (*i. e.* whose denominators are greater) the *Series* are rais'd with less labour, tho' the deducing the *Logarithms* of the primes therefrom be more intricate, and require more additions of *Logarithms*; but that being a trouble, small in comparison with that of making the *Series*, these must be suppos'd more eligible.

d 2

I. The

I. The Series for making the Logarithm of  $\frac{1}{5}$ ; twice  $2+1=5$  the first divisor, and the square of  $5=25$  the divisor for the rest.

The odd Powers divided by 1, 3, 5, &c.	
5) 1.00000,00000,00000,00000,00000(	1) 0.20000,00000,00000,00000,00000
(0.20000,00000,00000,00000,00000	3) . . . 266,66666,66666,66666,66666
25) 2( . . . 800,00000,00000,00000,00000	5) . . . 4,00000,00000,00000,00000
25) 8( . . . 32,00000,00000,00000,00000	7) . . . 18285,71428,57142,857143
25) 32( . . . 1,28000,00000,00000,00000	9) . . . . . 5688,88888,88888,88888
25) 128( . . . . . 5120,00000,00000,00000	11) . . . . . 18,6: 818,18181,818182
25) 512( . . . . . 204,80000,00000,00000	13) . . . . . 63015,38461,538461
25) 2048( . . . . . 8,19200,00000,00000	15) . . . . . 2184,53333,333333
25) 8192( . . . . . 32768,00000,00000	17) . . . . . 77,10117,647059
25) 32768( . . . . . 1310,72000,00000	19) . . . . . 2,75941,052622
25) 131072( . . . . . 52,42880,00000	21) . . . . . 9986,436095
25) 524288( . . . . . 809715,00000	23) . . . . . 364,722087
25) 2097152( . . . . . 8388,608000	25) . . . . . 13,421773
25) 8388608( . . . . . 335,584320	27) . . . . . 497103
25) 33554432( . . . . . 13,421773	29) . . . . . 18513
25) 13421773( . . . . . 536871	31) . . . . . 693
25) 536871( . . . . . 21475	33) . . . . . 26
25) 21475( . . . . . 859	35) . . . . . 1
25) 859( . . . . . 34	

The Sum is the natural Log. of  $\frac{1}{5} = 0.20273,25540,54082,19098,900657$

II. The Series for making the Logarithm of  $\frac{1}{7}$ ; twice  $3+1=7$  the first divisor, and the square of  $7=49$  the divisor for the rest.

The odd Powers divided by 1, 3, 5, &c.	
7) 1.00000,00000,00000,00000,00000(	1) 0.14285,71428,57142,85714,285714
(0.14285,71428,57142,85714,285714	3) . . . 97,18172,98347,91059,280855
49) 1488c(291,54518,95043,73177,842566	5) . . . 1,18998,03653,23972,154459
49) 291588c(5,94990,18266,1986c,772297	7) . . . . . 1734,66525,55743,024322
49) 59494c(12142,65678,90201,240251	9) . . . . . 27,53436,91361,000545
49) 121428c(247,80932,22249,004903	11) . . . . . 45975,75551,482384
49) 2478098c(5,05733,31066,306223	13) . . . . . 793,92984,405304
49) 5057338c(10321,08797,271556	15) . . . . . 14,04229,656152
49) 1032108c(210,63444,842271	17) . . . . . 25286,248310
49) 2106348c(429866,221271	19) . . . . . 461,725264
49) 4298668c(8772,780026	21) . . . . . 8,525539
49) 8772788c(179,036327	23) . . . . . 158861
49) 1790368c(3,653803	25) . . . . . 2983
49) 3653803c(74567	27) . . . . . 56
49) 74567(1522	29) . . . . . 1
49) 1522(31	

The Sum is the natural Log. of  $\frac{1}{7} = 0.14384,10362,25890,46371,960949$

1st Series . . . . .	nat. Log. of $\frac{1}{5} = 0.20273,25540,54082,19098,900657$
2d . . . . .	$\frac{1}{7} = 0.14384,10362,25890,46371,960949$
3d . . . . .	$\frac{1}{11} = 0.11157,17756,57104,87788,314755$
4th = 1st + 2d . . . . .	$2 = 0.34657,35902,79972,65470,861606$
5th = 1st + 4th . . . . .	$3 = 0.54950,61443,34054,84569,762263$
5th = 2d + 3d . . . . .	$4 = 0.69314,71805,59945,30941,723212$
6th = 3d + 3d . . . . .	$5 = 0.80471,89562,17050,18730,037967$
7th = 4th + 3d . . . . .	$10 = 1.15129,25464,97022,84200,899573$

III. The Series for the Logarithm of  $\frac{1}{2}$ ; twice  $4+1=9$  the first divisor, and the square of  $9=81$  the divisor for the rest.

9) 1.00000,00000,00000,00000,00000	The odd Powers divided by 1, 3, 5, &c.
(0.11111,11111,11111,11111,11111	1) 0.11111,11111,11111,11111,11111
81) 11800 437,17421,12482,85322,559396	3) . . . 45,72473,70827,61774,119799
81) 1371800 1,69350,87808,43028,671124	5) . . . . . 33870,17561,68605,734221
81) 16935800 2090,75158,12876,897174	7) . . . . . 298,67879,73268,128168
81) 209075800 25,81174,79171,319718	9) . . . . . 2,86797,19907,924413
81) 258117800 . . . 31866,35545,324935	11) . . . . . 2896,94147,484085
81) 3186635800 . . . 393,4179,571913	13) . . . . . 30,26244,582455
81) 393417800 . . . 4,85693,574962	15) . . . . . 32379,571664
81) 4856935800 . . . . . 5996,216975	17) . . . . . 352,718646
81) 5996216800 . . . . . 74,027371	19) . . . . . 3,896177
81) 7402737100 . . . . . 913918	21) . . . . . 43520
81) 91391800 . . . . . 11283	23) . . . . . 490
81) 1128300 . . . . . 139	25) . . . . . 6
The Sum is the natural Log. of $\frac{1}{2}=0.11157,17756,57104,87-88,314755$	

The three improper fractions, whose denominators, I believe the greatest that can be found, capable of effecting this, are  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{1}{8}$ ; which shall be pitch'd upon for another Example.

I. The Series for  $1-\frac{1}{2}=\frac{1}{2}$ ; twice  $15+1=31$  the first divisor, and the square of  $31=961$  the divisor for the rest.

31) 1.00000,00000,00000,00000,00000	The odd Powers divided by 1, 3, 5, &c.
(0.03225,80645,16129,03225,806452	1) 0.03225,80645,16129,03225,806452
961) 32800 3,55671,84720,21751,535699	3) . . . 1,11890,61573,40583,845235
961) 3356800 . . 349,29432,59127,733128	5) . . . . . 69,85886,51825,546626
961) 34929800 . . . 36346,96419,487756	7) . . . . . 5192,42345,641108
961) 363469800 . . . . 37,82202,309561	9) . . . . . 4,20244,701062
961) 378220800 . . . . . 3935,694391	11) . . . . . 357,790359
961) 393569800 . . . . . 4,095416	13) . . . . . 315032
961) 409541800 . . . . . 4262	15) . . . . . 283
The Sum is the natural Log. of $\frac{1}{2}=0.03226,92605,68785,58583,640196$	

II. The Series for  $1-\frac{1}{4}=\frac{3}{4}$ ; twice  $24+1=49$  the first divisor, and the square of  $49=2401$  the divisor for the rest.

49) 1.00000,00000,00000,00000,00000	The odd Powers divided by 1, 3, 5, &c.
(0.02040,81632,65306,12244,897959	1) 0.02040,81632,65306,12244,897959
2401) 204800 84998,59752,31408,681756	3) . . . 28332,86584,10469,56085
2401) 8499800 . . 35,40153,17464,143556	5) . . . . . 7,08026,63492,828711
2401) 35401800 . . . 1474,44115,895936	7) . . . . . 210,63444,842217
2401) 147444800 . . . . 61409,460182	9) . . . . . 6823,273354
2401) 61409800 . . . . . 25,576618	11) . . . . . 2,325147
2401) 255766800 . . . . . 10652	13) . . . . . 820
The Sum is the natural Log. of $\frac{3}{4}=0.02041,09972,60127,56477,728853$	

III.

III. The Series for  $1 \frac{1}{2} = \frac{3}{2}$ ; twice  $80+1=161$  is the first divisor, and the square of  $161=25921$  the divisor for the rest.

161) 1.00000,00000,00000,00000,00000(	The odd Powers divid. by 1, 3, 5, &c.
(0.00621,11801,24223,60248,447205	1) 0.00621,11801,24223,60248,447205
25921) 621 &c. ( 2396,19618,23323,183845	3) . . . . . 798,73206,07714,394615
25921) 23961 &c. ( . . . 9244,22739,220060	5) . . . . . 1848,84547,844012
25921) 92442 &c. ( . . . . . 35663,081641	7) . . . . . 5094,725948
25921) 35663 &c. ( . . . . . 1,375837	9) . . . . . 152871
25921) 1375837( . . . . . 53	11) . . . . . 5

The Sum is the natural Log. of  $1 \frac{1}{2} = 0.00621,12599,99278,57665,564656$

1st Series nat. Log. of $1 \frac{1}{2} =$	0.03226,92605,68785,58583,646196
2d . . . . . $\frac{2}{4} =$	0.02041,09972,60127,56477,728853
3d . . . . . $\frac{8}{8} =$	0.00621,12599,99278,57665,564656
4th = 1st + 2d + 3d . . . . . $\frac{2}{8} =$	0.05889,15178,28191,72726,939705
5th = 1st + 2d + 4th . . . . . $\frac{1}{4} =$	0.11157,17756,57104,87788,314754
6th = 1st + 5th . . . . . $\frac{3}{4} =$	0.14384,10362,25890,46371,960950
7th = 4th + 6th . . . . . $\frac{1}{2} =$	0.20273,25540,54082,19098,900655
8th = 6th + 7th . . . . . 2 =	0.34657,35902,79972,65470,861605
9th = 8th x 3 . . . . . 8 =	1.03972,07708,39917,96412,584817
10th = 5th + 9th . . . . . 10 =	1.15129,25464,97022,84200,899571

If greater exactness be desir'd, more Series should be taken: No fewer than four will be sufficient, if the greatest fraction be  $\frac{25}{24}$ ; then the (2d) may be  $\frac{26}{25}$ , the (3d)  $\frac{40}{39}$ , and the (4th)  $\frac{81}{80}$ ; then the 2d + 3d, that is,  $\frac{26}{25} \times \frac{40}{39} = \frac{16}{15}$  and  $\frac{81}{80} \times \frac{16}{15} \times \frac{25}{24} = \frac{9}{8}$ , &c. as in the foregoing operation,

Other four Series may be, (1st)  $\frac{49}{48}$ , (2d)  $\frac{64}{63}$ , (3d)  $\frac{126}{125}$ , and (4th)  $\frac{225}{224}$ , then  $\frac{126}{125} \times \frac{225}{224} = \frac{81}{80}$ , and  $\frac{49}{48} \times \frac{64}{63} \times \frac{225}{224} = \frac{25}{24}$ , and  $\frac{64}{63} \times \frac{126}{125} \times \frac{25}{24} = \frac{16}{15}$ , and  $\frac{81}{80} \times \frac{16}{15} \times \frac{25}{24} = \frac{9}{8}$ , &c. as above.

Five Series will be requir'd, if the greatest fraction be  $\frac{64}{63}$ ; then the (2d) may be  $\frac{81}{80}$ , (3d)  $\frac{100}{99}$ , (4th)  $\frac{121}{120}$ , and (5th)  $\frac{126}{125}$ ; then  $\frac{81}{80} \times \frac{100}{99} \times \frac{100}{99} \times \frac{121}{120} = \frac{25}{24}$ , and  $\frac{64}{63} \times \frac{126}{125} \times \frac{25}{24} = \frac{16}{15}$ , and  $\frac{81}{80} \times \frac{16}{15} \times \frac{25}{24} = \frac{9}{8}$ , &c. as before.

Six Series will be necessary, when the greatest fraction (is)  $\frac{100}{99}$ ; then (2d) may be  $\frac{121}{120}$ , (3d)  $\frac{126}{125}$ , (4th)  $\frac{225}{224}$ , (5th)  $\frac{125}{124}$ , and (6th)  $\frac{961}{960}$ ; then  $\frac{126}{125} \times \frac{225}{224} = \frac{81}{80}$ , and  $\frac{81}{80} \times \frac{100}{99} \times \frac{100}{99} \times \frac{121}{120} = \frac{25}{24}$ , and  $\frac{125}{124} \times \frac{125}{124} \times \frac{961}{960} = \frac{3125}{3072}$ , and  $\frac{25}{24} \times \frac{25}{24} \div \frac{3125}{3072} = \frac{16}{15}$ , and  $\frac{16}{15} \times \frac{25}{24} \times \frac{81}{80} = \frac{9}{8}$ , &c. as before.

As

As the divisors are augmented, so likewise must the number of Series.

*Note,* In the foregoing operations, the Logarithms of the products or quotients of the fractions are to be found by adding or subtracting their Logarithms.

But this work having been already accomplish'd, need not here be farther insisted on, the natural Logarithm of 10 (which is half of the hyperbolick Logarithm of 10) having been computed and confirm'd by a triple Proof to 83 places, is found to be

*The reciprocal of the natural Log. of 10*  
 $= 0.86858,89638,06503,65530,22578$   
*&c. multiply'd by the natural Log. of  $\frac{1}{2}$ , viz.*  
 $0.11157,17756,57104,87788,314755$

$0.08685,88963,80650,36553,022578$   
 $868,58896,38065,03655,302258$   
 $86,85889,63806,50365,530226$   
 $43,42944,81903,25182,765113$   
 $6,08012,27466,45525,587116$   
 $8685,88963,80650,365530$   
 $6080,12274,66455,255871$   
 $608,01227,46645,525587$   
 $43,42944,81903,251828$   
 $5,21153,37828,390219$   
 $43429,44819,032518$   
 $6080,12274,664553$   
 $86,85889,638065$   
 $3,47435,585523$   
 $69487,117104$   
 $6080,122747$   
 $608,012275$   
 $69,487117$   
 $6,948712$   
 $260577$   
 $8686$   
 $3474$   
 $608$   
 $43$   
 $4$

*Briggs's Log. of  $\frac{1}{2}$*   $= 0.09691,00130,08056,41435,878332$

1	0.86858,89638,06503,65530,22578,37833,21016,45887,94011,60733,31322,28907,56632
2	1.73717,79276,13007,31060,45156,75666,42032,91775,88023,21466,62644,37815,13264
3	2.60576,68914,19510,96590,67735,13499,63049,37663,82034,8199,93966,86722,69890
4	3.47435,58552,26014,62120,90313,51332,84065,83551,76046,42933,25289,15630,26528
5	4.34294,48190,32518,27651,12891,89166,05082,29439,70058,03666,56611,44537,83160
6	5.21153,37828,39021,93181,35470,26999,26098,75527,64069,64399,87933,73445,39792
7	6.08012,27466,45525,58711,58048,64832,47115,21215,58081,25133,19256,02352,96424
8	6.94871,17104,52029,24241,80627,02665,68131,67103,52092,85866,50578,31260,53056
9	7.81730,06742,58532,89772,03205,40498,89148,12991,46104,46599,81900,60168,09688

be 1.15129, 25464, 97022, 84200, 89957, 27342, 18210, 38005, 50744, 31438, 64880, 16663, 95048, 37863, 04838, 67624, 01, and it's reciprocal to be 0.86858, 89638, 06503, 68&c. whereby Mr. Briggs's Logarithms, (which are most convenient for use, where the Logarithm of 10 is assign'd = 1.00000&c.) are deduc'd from the natural by multiplication. For instance, the natural Logarithm of  $\frac{1}{2}$ , found in page 21, is in page 23 reduc'd to Briggs's, and for the more ease, in the like cases, the reciprocal of the natural Logarithm of 10 is multiply'd by 2, 3, 4, 5, 6, 7, 8, and 9, in the same 23d page.

Not only to confirm the former way, but to shew that Briggs's Logarithms may be immediately rais'd with the same ease and expedition as the natural, I shall give for an example Briggs's Logarithm of  $\frac{1}{2}$  thus rais'd, in which it may be observ'd, that the reciprocal of the natural Logarithm of 10 is made the first dividend, and all the rest as directed for making of natural Logarithms, in page 19.

The Series for Briggs's Log. of  $\frac{1}{2}$ , twice  $4+1=9$  the first divisor, and the square of  $9=81$  the divisor for the rest; as in the natural Log. of  $\frac{1}{2}$ , page 21.

9) 0.86858, 89638, 06503, 65530, 22578&c.	The <i>old Powers</i> divided by 1, 3, 5, &c.
( 0.09650, 98848, 67389, 29503, 358420	1) 0.09650, 98848, 67389, 29503, 358420
81) 968&c. (119, 14800, 60091, 22586, 461215	3) . . . 39, 71600, 20030, 40862, 155738
81) 1191&c. (1, 47096, 30371, 49661, 561249	5) . . . . . 29419, 26074, 29932, 312250
81) 14709&c. (1816, 00374, 95674, 834089	7) . . . . . 25942910, 70810, 690584
81) 18160&c. ( . . . 22, 41979, 93773, 763384	9) . . . . . 2, 49108, 38197, 084220
81) 224191&c. ( . . . 27678, 76466, 342758	11) . . . . . 2516, 25133, 303887
81) 276787&c. ( . . . . . 341, 71314, 399293	13) . . . . . 26, 26562, 646100
81) 3417131&c. ( . . . . . 4, 21868, 079004	15) . . . . . 28124, 538600
81) 4218680&c. ( . . . . . 5208, 247889	17) . . . . . 306, 567523
81) 5208247&c. ( . . . . . 64, 299357	19) . . . . . 3, 384177
81) 64299357 ( . . . . . 793819	21) . . . . . 37801
81) 793819 ( . . . . . 9800	23) . . . . . 426
81) 9800 ( . . . . . 121	25) . . . . . 5

Briggs's Log. of  $\frac{1}{2}=0.09691, 00130, 08056, 42435, 878351$   
Co. Ar. is Briggs's Log. of 8 = 0.90308, 99869, 91943, 58564, 121669

What is here written, is sufficient to shew the method, whereby the Logarithms of several of the small prime Numbers were made by the abovesaid Mr. Sharp, who with inexpressible care and pains has computed the Logarithms of all primes under 1100, by a double operation to more than 61 places; but the easiness of this method may tempt some curious Reader to examine some of them, who will then be better able to judge how much we are indebted to this admirably industrious Author.

The

The next work is to shew, how *Briggs's Logarithms* of the larger primes are immediately compos'd; for which several Rules may be laid down; but that which is most general and easy, and comes nearest the former, is this:

**Rule I.** Let the Number, whose Logarithm is sought, and either of the other two numbers next it, greater or less by an unit (the Logarithm of which is given) be made an improper fraction; to the denominator doubled, add 1, that shall be the first divisor, and the square of that must divide the first quotient, and all the rest: The dividend must always be the reciprocal of the natural Logarithm of 10, *vis.* 0.86858,89638,06503,65530,22578,37833,2&c. but all the rest must be as directed for making natural Logarithms; only the sum of the *Series*, or Logarithm of the fraction, when the given number is less than that sought, must be added to it's Logarithm; and when greater, subtracted from it. *Ex. gr.*

The *Series* to make *Briggs's Log.* of 251; take 250, the next less, to make the fraction  $\frac{251}{250}$ , whose Logarithm is first sought; twice  $250+1=501$  the first divisor, and the square of  $501=251001$  the divisor for the rest, as in the following operation.

501)	0.86858,89638,06503,65530,225784	(The odd Powers divided by 1, 3, 5, &c.	
	(0.00173,37105,06599,80769,521409)	1)	0.00173,37105,06599,80769,521409
251001)	1733 &c. (69,07185,65503,646478)	3)	23,02395,21834,548826
251001)	6907185 &c. ( . . 27,51855,831266)	5)	5,50371,166253
251001)	2751855 &c. ( . . . . 10,963525)	7)	1,566218
251001)	10963525 ( . . . . . 449)		5
<hr/>			
Briggs's Log. of $\frac{251}{250}$ = 0.00173,37128,09000,52976,802711			
Log. of 250 = 2.39794,00086,72037,60957,252221			
Log. of 251 = 2.39967,37214,81038,13934,054932			

**Rule II.** If two numbers, next that whose Logarithm is sought (either one greater and the other less; or both greater, or both less) have known Logarithms, the square of the middle number shall be the numerator of the improper fraction, and the product of the other two, the denominator.

For an *Example*, take 239; it's square is 57121, and the product of 238 x 240 is 57120; whence the fraction is  $\frac{57121}{57120}$ ; their sum 114241 is the first divisor, and it's square 13051006081 the divisor for the rest, as in the following Series.

114241)	0.86858,89638,06503,65530,2257	(The odd Powers divided by 1 and 3
	(0.00000,76031,28157,19841,086215	1) 0.00000,76031,28157,19841,086215
13051006081)	7603128 &c. (58257,027159	3) . . . . . 19419,009053
<hr/>		
<i>Briggs's Log.</i> of $\frac{57121}{57120}$ = 0.00000,76031,28157,39260,095208		

If the Log. of the middle number be sought, the Log. of the fraction, added to the Log. of the greatest and least, will be the Log. of the square of the middle number; the half of which is it's Logarithm, as in the following work.

1st <i>Briggs's</i> Log. of 240 . . . . .	2.38021,12417,11606,72293,624459
2d . . . . . Log. of 238 . . . . .	2.37657,69570,56511,95446,612505
3d (=1st + 2d) Log. 57120 (or 240x238) .	4.75678,81987,68117,97740,236964
4th . . . . . Log. of $\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$ . . . . .	0.00002,76031,28157,39260,095268
5th (=3d + 4th) Log. 57121 (or 239x239) .	4.75679,58018,96275,37000,332232
the half is the Log. of 239 . . . . .	2.37839,79009,48137,68500,166116

If the Log. of the greatest or least number be sought, subtract the Log. of the fraction from the Log. of the square of the middle number, the remainder shall be the Log. of the product of the other two; from which subtract the Log. of the known number, the remainder will be the Log. of the other.

Suppose the Log. of 239 and 240 given, and 238 sought; then 5th—4th=3d, and 3d—1st=2d: If the Log. of 239 and 238 are given, and 240 sought; then 5th—4th=3d, and 3d—2d=1st.

**Rule III.** Find such a product of the number, whose Logarithm is sought (the factors whereof have known Logarithms) which shall be greater or less by an Unit than another number compos'd of such as have known Logarithms, these two shall make the fraction, whose Logarithm is to be directly found, according to the former prescriptions, and the Logarithm sought must be thence deduc'd, as in the last.

For *Example*; take 227, which multiplied by 27 and 31, produces 189999; the fraction is  $\frac{189999}{144399240001}$ , the first divisor is 379999, and it's square = 144399240001 the divisor for the rest.

379999)0.8685896380650365530225784(	The odd Powers divided by 1, and 3.
(0.00000228576644624460499976	1)0.00000228576644624460499976
144399240001)2285766 &c (1582949077	3) 15829 &c. ( . . . . . 527649692

<i>Briggs's</i> Log. of $\frac{189999}{144399240001}$ =	0.00000,22857,66446,24988,149668
Log of 190000 =	5.27875,36009,52828,96153,633347
Log. of 189999 =	5.27875,13151,86382,71165,483679
Log. of 837 (or 27x31) =	2.92272,54579,93259,99155,178781
Log. of 227 =	2.35632,58571,93122,72010,304898

This last method may ordinarily be render'd as universal as the first, and more expeditious than the second; the only difficulty is in finding out proper numbers. The method I commonly us'd, which rarely fails, is here subjoin'd; as in the numbers 223 and 239, which is better understood by the performance, than express'd in words.

$$223 \times \begin{cases} 7 = 1561 \\ 80 = 17840 \\ 87 = 19401 \\ 200 = 44600 \\ 287 = 64001 \end{cases}$$

$$\text{or } 223 \times \begin{cases} 3 = 669 \\ 10 = 2230 \\ 13 = 2899 \\ 700 = 156100 \\ 713 = 158999 \end{cases}$$

$$229 \times \begin{cases} 1 = 229 \\ 30 = 6870 \\ 31 = 7099 \\ 100 = 22900 \\ 131 = 29999 \end{cases}$$

$$\text{or } 229 \times \begin{cases} 9 = 2061 \\ 60 = 13740 \\ 69 = 15801 \\ 800 = 183200 \\ 869 = 199001 \\ 9000 = 2061000 \\ 9869 = 2260001 \end{cases}$$

$$287=41 \times 7; 713=31 \times 23; \text{ and } 9869=139 \times 71.$$

Here two convenient fractions are discover'd, for making the

Logarithms of  $\begin{cases} 223, \text{ viz. } \frac{64001}{64000} = \frac{7 \times 41 \times 223}{64000}, \text{ and } \frac{159000}{158999} = \frac{3000 \times 13}{31 \times 23 \times 223} \\ 229, \text{ viz. } \frac{30000}{29999} = \frac{30000}{131 \times 229}, \text{ and } \frac{2260001}{2260000} = \frac{11 \times 120 \times 229}{113 \times 20000} \end{cases}$

**Rule IV.** Raise the number, whose Logarithm is sought, to it's square, cube, or greater power; and if the number greater or less by an unit than such square, cube, &c. be compos'd of such factors, as have known Logarithms, those two shall make the fraction, whose Logarithm is to be found, as before.

An *Examp<sup>e</sup>* shall be in finding the Logarithm of 211.  
 $\frac{211 \times 211 \times 211 \times 211}{60 \times 28 \times 53 \times 113 \times 197} = \frac{1982119441}{1982119440}$ ; the sum 3964238881, at the first division, quotes the Log. of the fraction to 29 places-39642388810.868588963806503655&c(c0.00000,00002,19106,11087,78080,3573  
 Add the Log. of 1982119440 = 0.29712,98209,71664,54944,84244,8397  
 The Sum is the Log. of 1982119441 = 9.29712,98211,90770,66032,62325,1970  
 $\frac{1}{4}$  of which is the Log. of 211 = 2.32428,24552,97692,66578,15581,2992

**Rule V.** Find such a product of the number, whose Logarithm is sought (the greater the better) which hath two numbers next to it, on both or either side, compos'd of such factors as have known Logarithms; then square the middle number, that square shall be the numerator, and the product of the other two the denominator of the fraction, the Logarithm whereof is to be made according to the Rule; but it must be observ'd in which the sought number is ingredient; for if in the numerator, the Logarithm of the fraction must be added to the Logarithm of the denominator; and if in the denominator, it must be subtracted from the Logarithm of the numerator.

*Convenient fractions found for making the Logarithms of 211, 223, 227, 229, 233, 239, 241, 251, 257, 263, 269, and 271.*

Of 211; $211 \times 11 = 2321$ , $2322 = 34 \times 43$ , and $2320 = 29 \times 80$ ;	then $\frac{2321 \times 2321}{2322 \times 2320} = \frac{5387041}{5387040}$
Of 223; $223 \times 13 = 2899$ , $2898 = 23 \times 14 \times 9$ , and $2900 = 29 \times 100$ ;	then $\frac{2899 \times 2899}{2898 \times 2900} = \frac{8404201}{8404200}$
Of 227; $227 \times 17 = 3859$ , $3860 = 193 \times 20$ , and $3861 = 143 \times 27$ ;	then $\frac{3860 \times 3860}{3859 \times 3861} = \frac{14899600}{14899599}$
Of 229; $229 \times 31 = 7099$ , $7100 = 71 \times 100$ , and $7098 = 42 \times 13 \times 13$ ;	then $\frac{7099 \times 7099}{7098 \times 7100} = \frac{50395801}{50395800}$
Of 233; $233 \times 45 = 11019$ , $11020 = 29 \times 19 \times 20$ , and $11021 = 107 \times 103$ ;	then $\frac{11020 \times 11020}{11019 \times 11021} = \frac{12144040}{12144039}$
Of 239; $239 \times 41 = 9799$ , $9800 = 98 \times 100$ , and $9801 = 99 \times 99$ ;	then $\frac{9800 \times 9800}{9799 \times 9801} = \frac{96040000}{96039999}$
Of 241; $241 \times 41 = 9881$ , $9882 = 61 \times 18 \times 9$ , and $9880 = 52 \times 190$ ;	then $\frac{9881 \times 9881}{9882 \times 9880} = \frac{97634161}{97634160}$
Of 251; $251 \times 131 = 32881$ , $32880 = 137 \times 240$ , and $32879 = 61 \times 49 \times 11$ ;	then $\frac{32880 \times 32880}{32879 \times 32881} = \frac{1081094400}{1081094399}$
Of 257; $257 \times 47 = 12079$ , $12078 = 61 \times 18 \times 11$ , and $12080 = 151 \times 80$ ;	then $\frac{12079 \times 12079}{12078 \times 12080} = \frac{145902241}{145902240}$
Of 263; $263 \times 73 = 19199$ , $19200 = 96 \times 200$ , and $19201 = 211 \times 91$ ;	then $\frac{19200 \times 19200}{19199 \times 19201} = \frac{368640000}{368639999}$
Of 269; $269 \times 99 = 45999$ , $46000 = 46 \times 1000$ , and $45998 = 111 \times 109 \times 2$ ;	then $\frac{45999 \times 45999}{45998 \times 46000} = \frac{2115908001}{2115908000}$
Of 271; $271 \times 269 = 72899$ , $72900 = 81 \times 900$ , and $72898 = 127 \times 41 \times 14$ ;	then $\frac{72899 \times 72899}{72898 \times 72900} = \frac{5314264201}{5314264200}$

The like Expedients may be found for larger Primes.

*Another different Method of making Logarithms, deriv'd from Dr. Wallis's Illustration of Mercator's Quadrature of the Hyperbola, in Phil. Trans. N<sup>o</sup> 38. wherein the greatest part of the Work, (viz. raising all the Powers) is perform'd by multiplication, being more expeditious, in raising the Logarithms of the first primes, with those of many large ones, than the former by division, and very useful in composing a Table of Logarithms.*

LET any three numbers in arithmetical Progression be propos'd, the least = A, the middle = B, the greatest = E.

If the Logarithm of any one of these be given, the Logarithms of the other two may be thus obtain'd, by an infinite Series.

I. Let the first term of the Series be  $C = \frac{B-A}{B} = \frac{E-B}{B} = \frac{E-A}{E+A}$

II. The Series =  $C \pm \frac{1}{2}C^2 + \frac{1}{3}C^3 \pm \frac{1}{4}C^4 + \frac{1}{5}C^5 \pm \frac{1}{6}C^6 + \frac{1}{7}C^7 \pm \frac{1}{8}C^8 + \frac{1}{9}C^9 \pm \frac{1}{10}C^{10}$  &c.

III. The

III. The Sum of all the odd Powers, (*viz.*  $C + \frac{1}{3}C^3 + \frac{1}{5}C^5 + \frac{1}{7}C^7 + \frac{1}{9}C^9$  &c. = Z) is the hyperbolic Logarithm of  $\sqrt{\frac{E}{A}}$ .

IV. The Sum of the even Powers, (*viz.*  $\frac{1}{2}C^2 + \frac{1}{4}C^4 + \frac{1}{6}C^6 + \frac{1}{8}C^8 + \frac{1}{10}C^{10}$  &c. = X) is the hyperbolic Logarithm of  $\sqrt{\frac{BB}{EA}}$ .

V. The Sum of all the Powers, or Z+X is the hyperbolic Logarithm of  $\frac{B}{A}$ .

VI. The Difference of the odd and even Powers, or Z-X is the hyperbolic Logarithm of  $\frac{E}{B}$ .

If B be equal to 1, 10, 100, 1000, 10000, &c. all the Powers will be rais'd by the multiplication of C continually for the hyperbolic Logarithms; or of C into the number 0.43429448 &c. and into the several products for *Briggs's* Logarithms; all which Powers must be divided by their respective Indices.

This Method hath this peculiar advantage above others, that a Series once rais'd for the first numbers in that progression, will generally serve for finding the Logarithms of eight or more Primes, without any more labour than addition or subtraction; and therefore must be of very great use in composing a Table, especially as it is most expeditious in making the Logarithms of the first primes, tho' not for raising every single Logarithm.

The Logarithms of the first primes, *viz.* 2, 3, 5, &c. must be, either the *hyperbolic*, or the *natural*, since in all methods of raising Logarithms, these first offer themselves; and from hence must be deduc'd the Number 0.43429448 &c. or it's double, which reduces them to *Briggs's*: Amongst variety of expedients for effecting this, the following is easy, and capable of a competent exactness, by three Series; for fewer will not perform it without more labour and difficulty.

The 1st three numbers are  $96=A$ ,  $100=B$ , and  $104=E$ ; then  $\frac{B-A}{B} = \frac{100-96}{100} = \frac{4}{100}$ , or  $\frac{E-B}{B} = \frac{104-100}{100} = \frac{4}{100}$ , or  $\frac{E-A}{E+B} = \frac{104-96}{200} = \frac{8}{200} = \frac{4}{100} = C$ ; so that  $0.04=C$  is the first term, whose powers, &c. make the first Series.

The 2d are  $92=A$ ,  $100=B$ , and  $108=E$ ; then  $\frac{B-A}{B} = \frac{8}{100} = 0.08=C$ , the first term of the second Series.

The 3d are  $975=A$ ,  $1000=B$ , and  $1025=E$ ; then  $\frac{B-A}{B} = \frac{25}{1000} = 0.025=C$ , the first term of the third Series. The



C	0.025
C <sup>2</sup>	625
C <sup>3</sup>	15625
C <sup>4</sup>	390625
C <sup>5</sup>	9765625
C <sup>6</sup>	244140625
C <sup>7</sup>	6103515625
C <sup>8</sup>	152587890625
C <sup>9</sup>	38146972656
C <sup>10</sup>	953674316
C <sup>11</sup>	23841858
C <sup>12</sup>	596046
C <sup>13</sup>	14901
C <sup>14</sup>	373
C	0.0250000000000000000000000000000000
C <sup>3</sup>	52083333333333333333
C <sup>5</sup>	1953125000000000000000
C <sup>7</sup>	8719308035714
C <sup>9</sup>	4238552517
C <sup>11</sup>	2167442
C <sup>13</sup>	1147
Z = log. √ $\frac{1001}{175}$	= 0.0250052102875306882090152
C <sup>3</sup>	0.0003125000000000000000000000000000
C <sup>4</sup>	9765625000000000000000000000000000
C <sup>6</sup>	4069010416666667
C <sup>8</sup>	190734863281
C <sup>10</sup>	95367432
C <sup>12</sup>	49670
C <sup>14</sup>	27
X = log. √ $\frac{1000000}{149575}$	= 0.0003125976969591871947077
Z + X = log. $\frac{1000000}{175}$	= 0.02531780-98442898754037230
Z - X = log. $\frac{1000000}{1000000}$	= 0.0246926125903715010143076

The Logarithm of 11 is had from a Series of 0.01, for  $99=9 \times 11$ , or from 0.001, for  $1001=7 \times 13 \times 11$ ; the Log. of 29 from a Series of 0.0005 for  $10005=15 \times 23 \times 29$ ; and the Log. of 37 from 0.001, for  $999=3 \times 37$ ; &c.

1<sup>st</sup> *Neper's* or the *hyperbolic Log.* of  $\frac{108}{100} = .04082, 19945, 20255, 12955, 45771$   
2<sup>d</sup>  $\frac{108}{100} = .07696, 10411, 36128, 32498, 42170$   
3<sup>d</sup>  $\frac{108}{100} = .02531, 78079, 84289, 87540, 37230$   
4<sup>th</sup>  $\frac{108}{100} = .03922, 07131, 93281, 29626, 92009$   
5<sup>th</sup> 1<sup>st</sup> + 2<sup>d</sup>  $\frac{108}{100} = .11778, 30566, 56383, 45453, 87941$   
6<sup>th</sup> 3<sup>d</sup> + 4<sup>th</sup>  $\frac{108}{100} = .06453, 85211, 37571, 17167, 29239$   
7<sup>th</sup> 5<sup>th</sup> + 6<sup>th</sup>  $\frac{108}{100} = .18232, 15567, 93954, 62621, 17180$   
8<sup>th</sup> 1<sup>st</sup> + 7<sup>th</sup>  $\frac{108}{100} = .22314, 35513, 14209, 5576, 62951$   
9<sup>th</sup> 7<sup>th</sup> + 8<sup>th</sup>  $\frac{108}{100} = .40546, 51081, 08164, 38197, 80131$   
10<sup>th</sup> 9<sup>th</sup> + 5<sup>th</sup>  $\frac{108}{100} = .28768, 20724, 5178c, 92743, 92190$   
11<sup>th</sup> 9<sup>th</sup> + 10<sup>th</sup>  $\frac{108}{100} = .60514, 71805, 59945, 50941, 74231$   
12<sup>th</sup> 9<sup>th</sup> + 11<sup>th</sup>  $\frac{108}{100} = .109861, 22886, 68109, 69139, 52452$   
13<sup>th</sup> 11<sup>th</sup> x 3  $\frac{108}{100} = .207944, 15416, 79835, 92825, 16964$   
14<sup>th</sup> 8<sup>th</sup> + 13<sup>th</sup>  $\frac{108}{100} = .230258, 50929, 94045, 68401, 79914$   
54684, 36420, 76011, 01488, 62877, 29760, 33327, 90096, 5726, 0967, 755248, 03; the  
Reciprocal whereof is 0.43429, 44819, 03251, 82765, 11289, 18916, 60508, 22943,  
97005, 80366, 65661, 14453, 78316, 1365.

**I shall**

I shall here offer one of the three Expedients, whereby these first primes, together with many others, were computed to the exactness of 82 places; which was by six Series, from whence the Logarithms of these ten fractions were made.

$$\begin{aligned} 1^{\text{st}} \frac{1008}{1000} &= \frac{7 \times 9 \times 16}{1000}; & 2^{\text{d}} \frac{1000}{992} &= \frac{1000}{32 \times 31}; & 3^{\text{d}} \frac{1000125}{1000000} &= \frac{63 \times 125 \times 127}{1000000}; & 4^{\text{th}} \frac{1000000}{999998} \\ &= \frac{1000000}{62 \times 127 \times 127}; & 5^{\text{th}} \frac{10000}{9996} &= \frac{10000}{14 \times 42 \times 17}; & 6^{\text{th}} \frac{100016}{100000} &= \frac{172 \times 19 \times 47}{100000}; & 7^{\text{th}} \frac{10000}{9975} \\ &= \frac{10000}{15 \times 35 \times 19}; & 8^{\text{th}} \frac{100000}{99875} &= \frac{100000}{125 \times 17 \times 47}; & 9^{\text{th}} \frac{100000}{99975} &= \frac{100000}{75 \times 31 \times 43}; & \text{and } 10^{\text{th}} \\ \frac{1000008}{1000000} &= \frac{72 \times 17 \times 19 \times 43}{1000000}. \end{aligned}$$

$$\begin{aligned} \text{Then } \frac{1008}{1000} \times \frac{1008}{1000} \times \frac{1000}{992} &= \frac{63 \times 63}{125 \times 31}; & \frac{1000125}{1000000} \times \frac{1000125}{1000000} \times \frac{1000000}{999998} &= \frac{63 \times 63}{128 \times 31}; \\ \frac{63 \times 63}{125 \times 31} \div \frac{63 \times 63}{128 \times 31} &= \frac{128}{125}; & \frac{1008}{1000} \times \frac{1008}{1000} \times \frac{10000}{9996} &= \frac{16 \times 27}{25 \times 17}; & \frac{100016}{100000} \times \frac{100000}{99875} \times \\ \frac{10000}{9975} &= \frac{16 \times 16}{15 \times 17}; & \frac{16 \times 27}{25 \times 17} \div \frac{16 \times 16}{15 \times 17} &= \frac{81}{80}; & \frac{100000}{99975} \times \frac{1000008}{1000000} &= \frac{12 \times 17 \times 19}{125 \times 31}; & \frac{1000}{992} \\ \div \frac{12 \times 17 \times 19}{125 \times 31} &= \frac{125 \times 125}{48 \times 17 \times 19}; & \frac{125 \times 125}{48 \times 17 \times 19} \div \frac{16 \times 16}{15 \times 17} &= \frac{5 \times 125 \times 125}{16 \times 16 \times 16 \times 19}; & \frac{5 \times 125 \times 125}{16 \times 16 \times 16 \times 19} \\ \div \frac{10000}{15 \times 35 \times 19} &= \frac{21 \times 25 \times 125}{16 \times 16 \times 16 \times 16}; & \frac{128}{125} \times \frac{128}{125} \times \frac{21 \times 25 \times 125}{16 \times 16 \times 16 \times 16} &= \frac{21}{20}; & \frac{21}{20} \div \frac{1008}{1000} &= \\ \frac{25}{24}; & \frac{128}{125} \times \frac{25}{24} &= \frac{16}{15}; & \text{and } \frac{81}{80} \times \frac{25}{24} \times \frac{16}{15} &= \frac{9}{8}; & \&c. \text{ as in the former operation.} \end{aligned}$$

Expedients of this kind I have us'd, both for finding and proving the Logarithms of all the primes under 1100, and many above it.

*To exemplify the making of Briggs's Logarithms immediately by this Method.*

Take the three numbers in the 2d Series, viz. 92=A, 100=B, 108=E, then  $\frac{B-A}{B} = \frac{8}{100} = 0.08 = C$ , by which multiplying the reciprocal of the hyperbolic Logarithm of 10 (viz. 0.43429 &c. =N) continually, and dividing each Power by it's Index, the following Series are made.

NC <sup>0</sup> = 0.434294.XC	= 0.034743558552260146212
NC <sup>1</sup> = 0.3744548.XC	2779484684180811697
NC <sup>2</sup> = 0.317988.XC	222358714734464936
NC <sup>3</sup> = 0.222388.XC	17788101978757195
NC <sup>4</sup> = 0.177888.XC	142309613830575
NC <sup>5</sup> = 0.142388.XC	113847692664046
NC <sup>6</sup> = 0.113888.XC	9107815413124
NC <sup>7</sup> = 0.091888.XC	728645233050
NC <sup>8</sup> = 0.072888.XC	58290018644
NC <sup>9</sup> = 0.058288.XC	4663201492
NC <sup>10</sup> = 0.046688.XC	373056119
NC <sup>11</sup> = 0.037388.XC	29844489
NC <sup>12</sup> = 0.029688.XC	2387579
NC <sup>13</sup> = 0.024888.XC	191005
NC <sup>14</sup> = 0.020988.XC	15280
NC <sup>15</sup> = 0.017588.XC	1222
NC <sup>16</sup> = 0.014588.XC	98

NC	0.044143558552260146212
NC <sup>1</sup>	74119591578154978
NC <sup>2</sup>	284619231460115
NC <sup>3</sup>	1301116487589
NC <sup>4</sup>	6476668738
NC <sup>5</sup>	33914193
NC <sup>6</sup>	183658
NC <sup>7</sup>	1018
NC <sup>8</sup>	6

$$Z = \log \sqrt{\frac{1000}{27}} = 0.034817964070697216507$$

NC <sup>1</sup>	0.001389742342090405848
NC <sup>2</sup>	4447175494689299
NC <sup>3</sup>	18974615444008
NC <sup>4</sup>	91078154131
NC <sup>5</sup>	466320149
NC <sup>6</sup>	2487040
NC <sup>7</sup>	13643
NC <sup>8</sup>	76

$$X = \log \sqrt{\frac{10000}{27}} = 0.001394108583747514794$$

$$Z - X = \log \sqrt{\frac{1000}{27}} = 0.033423755486949702313$$

$$Z + X = \log \sqrt{\frac{10000}{27}} = 0.036212172654444730701$$

$$\log \sqrt{92} = 1.9637878213455526999$$

NC <sup>1</sup>	74119591578155
NC <sup>2</sup>	2846192319
NC <sup>3</sup>	130112
NC <sup>4</sup>	6

$$Z = \log \sqrt{\frac{10000}{27}} = 0.005474420977663915211$$

NC <sup>1</sup>	0.000013897423420904058
NC <sup>2</sup>	4447175494689299
NC <sup>3</sup>	18974615444008
NC <sup>4</sup>	91078154131

$$X = \log \sqrt{\frac{100000}{27}} = 0.000013897868157429053$$

$$Z - X = \log \sqrt{\frac{10000}{27}} = 0.00460532109506486158$$

$$Z + X = \log \sqrt{\frac{1000000}{27}} = 0.003488927845821344264$$

$$\log \sqrt{997} = 2.996511672154178655786$$

Hence 'tis evident, after the first Series is exhibited, how easy the others are thence deriv'd, even with no more labour than transcribing: I have instanc'd in the next place, i. e. making C = 0.008; whence the Logarithms of (144X7) 1008, and of (32X31) 992, are obtain'd.

If C = 0.0008, the Logarithms of (72X139) 10008, and of (8X1249) 9992, are got; if C = 0.00008, the Logarithms of (216X463) 100008, and of (8X120X431) 99992, are had; and if C = 0.000008, the Logarithms of (72X72X19X43) 1000008, and of (8X49X25513) 999992, are got: So that the Logarithms of ten primes (those of 2, 29, 17 and 19 being given) are obtain'd from this one Series, viz. 3, 23, 7, 31, 139, 1249, 463, 431, 43 and 2551.

Many other Series are as prolific as this; and tho' the labour in raising the first Series may be considerable, yet the advantage of gaining so many Logarithms thence, so easily, makes abundant compensation.

I shall by another Instance shew the advantage of this Method, tho' perform'd by Division.

Let the three Numbers be 1899 = 211X9 = A, 1900 = B and 1901 = E; then  $\frac{B-A}{B} =$

$$\frac{1900-1899}{1900} = \frac{1}{1900} = C, \text{ where}$$

By  $\frac{1}{1900} = 0.43429 \text{ \&c.}$  must be multiply'd  $\frac{1}{4}$ , & divided by 1900 continually, and then each power divided by it's Index. From this Series the Logarithms of the primes 211, 1901, 2111, 19007, 227, and 27247, are obtain'd, as shewn in the next page.

1900)

1900)0.4348cc. (NC	0.00022857604310697464613217
1900)22858cc. (NC <sup>2</sup>	12030318058261823481
1900)12038cc. (NC <sup>3</sup>	6331746346453591
1900)63318cc. (NC <sup>4</sup>	3332498077081
1900)33328cc. (NC <sup>5</sup>	1753946355
1900)17538cc. (NC <sup>6</sup>	923130
1900)92318cc. (NC <sup>7</sup>	486

NC	0.00022857604310697464613217
1/2 NC <sup>2</sup>	2110582115484530
1/3 NC <sup>3</sup>	350789271
1/4 NC <sup>4</sup>	69

$$Z = \log. \text{ of } \sqrt[11]{11111} = 0.00022857606421279930887087$$

1/2 NC <sup>2</sup>	0.00000006015159029130911740
1/3 NC <sup>3</sup>	833124519270
1/4 NC <sup>4</sup>	153855

$$X = \log. \text{ of } \sqrt[11]{11111111111} = 0.00000006015159862255584865$$

1st = Z + X = log. of 11111	0.00022863621581142186471952
2d . . . . . log. of 1900	3.27875360095282896153633347
3d = 2d - 1st = log. of 1899	3.27852496473701753967161395
4th . . . . . log. of 9	0.95424250943932487459005581
5th = 3d - 4th = log. of 211	2.324982455297692665081555814
6th = Z - X = log. of 11111	0.00022851591261417675302222
7th = 2d + 6th = log. of 1901	3.27898211686544315828935569

$$\text{If } C = 17849, \text{ then } NC = 0.00002285760431069746461322$$

1/2 NC <sup>2</sup>	2110582115484
1/3 NC <sup>3</sup>	3503

$$Z = \log. \text{ of } \sqrt[11]{11111111111} = 0.00002285760433180328580314$$

1/2 NC <sup>2</sup>	0.0000000060151590291309117
1/3 NC <sup>3</sup>	83312452

$$X = \log. \text{ of } \sqrt[11]{111111111111111111111} = 0.0000000060151590374621569$$

1st = Z + X = log. of 11111	0.00002285820584770703201883
2d . . . . . log. of 19000	4.27875360095282896153635347
3d = 2d - 1st = log. of 18999	4.27873074274698125450431464
4th . . . . . log. of 9	0.95424250943932487459005581
5th = 3d - 4th = log. of 2111	3.32448823330765637991425883
6th = Z - X = log. of 11111	0.00002285700281589953958745
7th = 2d + 6th = log. of 19001	4.27877645795564486107592092

$$\text{If } C = 17888, \text{ then } NC = 0.0000228576043106974646132$$

1/2 NC <sup>2</sup>	2110582115
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$$Z = \log. \text{ of } \sqrt[11]{11111111111} = 0.0000228576043109085228247$$

1/2 NC <sup>2</sup>	0.00000000000601515902913091
1/3 NC <sup>3</sup>	8331

$$X = \log. \text{ of } \sqrt[11]{11} = 0.00000000000601515902921422$$

1st = Z + X = log. of 11111	0.0000228576644624988149669
2d . . . . . log. of 190000	5.27875360095282896153633347
3d = 2d - 1st = log. of 189999	5.27875131518638271165483678
4th . . . . . log. of (31X27)837	2.92272545799325999155178781
5th = 3d - 4th = log. of 327	2.3560258571931272010304897
6th = Z - X = log. of 11111	0.0000228575441593182306825
7th = 2d + 6th = log. of 190001	5.27875588670724489335940172
8th . . . . . log. of 7	0.84509804001425683071221626
9th = 7th - 8th = log. of 27143	4.43365784669298806264718546

†

To find convenient Fractions for making the Logarithms of particular Numbers, without any other division than by the Indices of the Powers.

Take such a product of the Number propos'd as begins with an unit and ciphers, or with a nine; if the former, subtract such products from it successively as begin with the same; or next less figure than that which immediately follows the unit and ciphers, subtracting the last always from the next former, multiplied by 10, 100, &c. till a convenient Number be found; if the latter, add such products to it successively, when multiplied by 10, 100, &c. as will make the following figures as near nines as possible.  
Ex. gr.

Rank 1	Rank 2	Rank 3	Rank 4
251 $X_4 = 1004$ $X_1 = -251$ $X_{399} = 100149$ $X_5 = -1259$ $X_{3985} = 1000235$ $X_9 = -2259$ $X_{39841} = 10000091$	251 $X_1 = 753$ $X_9 = 2259$ $X_{39} = 9789$ $X_8 = 2008$ $X_{398} = 99898$ $X_4 = 1004$ $X_{3984} = 999984$ $X_6 = 1506$	257 $X_4 = 1028$ $X_1 = -257$ $X_{39} = 10023$ $X_8 = -2056$ $X_{3892} = 1000244$ $X_9 = -2313$ $X_{38911} = 10000127$	257 $X_1 = 771$ $X_8 = 2056$ $X_{38} = 9766$ $X_9 = 2313$ $X_{389} = 99973$ $X_1 = 257$ $X_{3891} = 999987$ $X_5 = 1289$
$251X(2887X43X6)398406 = 99999906$		$257X(1319X59X5)389165 = 99999985$	

In this manner convenient Fractions are found; as,

$$\frac{1004}{1000} = \frac{251X_4}{1000}, \frac{100149}{100000} = \frac{251X_{21}X_{19}}{100000}, \frac{1000235}{1000000} = \frac{251X_{797}X_5}{1000000}, \frac{10000091}{10000000} = \frac{39841X_{251}}{10000000},$$

$$\frac{100000}{99898} = \frac{100000}{251X_{199}X_2}, \frac{1000000}{999984} = \frac{1000000}{251X_{83}X_4}, \frac{100000000}{99999906} = \frac{100000000}{2887X_{251}X_6}, \frac{10023}{10000} = \frac{257X_{39}}{10000}, \frac{1000244}{1000000} = \frac{257X_{139}X_{28}}{1000000}, \frac{10000127}{10000000} = \frac{257X_{233}X_{167}}{10000000}, \frac{100000}{99973} = \frac{100000}{389X_{257}},$$

$$\frac{1000000}{999987} = \frac{1000000}{1297X_{257}X_3}, \frac{100000000}{99999985} = \frac{100000000}{1319X_{257}X_{59}X_5}. \text{ Where the Powers of the}$$

Numbers 0.004; 0.00149; 0.000235; 0.0000091; 0.00102; 0.000016; 0.00000094; 0.0023; 0.000244; 0.0000127; 0.00027; 0.000013; 0.00000013 respectively, are required to be divided only by the Indices of the Powers.

Note, Tho' this Method seems more limited, as not admitting of every particular number, yet at the beginning of the Table, where the other is most laborious, this is most commodious, and affords excellent expedients for many great primes; but where it fails, there the other becomes more convenient, and performs with greater expedition; so that both together render this Art, viz. Logarithmotechnia, most compleat.

TABLE I. Briggs's Logarithms of all Numbers to 100, and of Primes under 1100, to sixty-one places, by Mr. Sharp.

N.	Logarithms.	N.
1	0.00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000	1
2	0.30102, 99956, 39811, 19521, 33738, 94774, 49302, 67681, 89881, 46213, 86413, 104375	2
3	0.47712, 12547, 19662, 34729, 50279, 63255, 11530, 92001, 23864, 19069, 58648, 298656	3
4	0.60206, 09913, 27942, 39042, 47497, 59948, 69899, 79942, 89942, 17082, 26942, 36942	4
5	0.69897, 00043, 36018, 80478, 62611, 105275, 50697, 32318, 10118, 53789, 14586, 895725	5
6	0.77815, 12503, 83643, 61250, 87667, 97979, 68133, 55083, 18745, 65280, 44061, 102951	6
7	0.84509, 80408, 14256, 83071, 21412, 58592, 68119, 34335, 23632, 13964, 44061, 102951	7
8	0.89010, 89869, 91945, 52642, 21616, 64173, 49903, 20240, 69944, 86632, 56632, 312824	8
9	0.95424, 25094, 39324, 87459, 00558, 00510, 23061, 84002, 57728, 38139, 17295, 597313	9
10	1.00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000, 00000	10
11	1.04139, 89815, 38225, 04685, 99999, 99999, 99999, 99999, 99999, 99999, 99999, 99999	11
12	1.07918, 24604, 76648, 82772, 25056, 98704, 10136, 27366, 08672, 14931, 20974, 007206	12
13	1.11394, 33523, 00836, 70920, 60501, 57942, 32843, 08397, 29188, 38706, 32718, 01910	13
14	1.14612, 80356, 78248, 82592, 59551, 53319, 12922, 00027, 52277, 78697, 39434, 10282	14
15	1.17609, 12590, 55681, 24208, 12890, 00853, 3062228, 24319, 38982, 72588, 73235, 194382	15
16	1.20411, 99826, 55924, 78085, 49555, 78897, 97210, 70727, 59525, 84434, 16524, 47098	16
17	1.23044, 90213, 78273, 92854, 01698, 94328, 33703, 00057, 67378, 42504, 39973, 80587	17
18	1.25527, 25094, 39324, 87459, 00558, 00510, 23061, 84002, 57728, 38139, 17295, 597313	18
19	1.27875, 36009, 52828, 96153, 67334, 75756, 92931, 17951, 129337, 39449, 75989, 068189	19
20	1.30102, 99956, 39811, 19521, 33738, 94774, 49302, 67681, 89881, 46213, 86413, 104375	20
21	1.32221, 07947, 33919, 28800, 72441, 61847, 75150, 26839, 01260, 51466, 11913, 335009	21
22	1.34622, 26808, 22206, 23896, 39285, 122567, 51726, 87478, 00911, 92858, 16359, 009665	22
23	1.36172, 78360, 17592, 87886, 77771, 12551, 18954, 00076, 11034, 33609, 18827, 56055	23
24	1.38021, 12417, 11606, 02293, 62446, 87828, 59438, 00046, 68508, 57702, 14287, 514480	24
25	1.39794, 00086, 72037, 60957, 24222, 10551, 01394, 64636, 02037, 07578, 73179, 14181	25
26	1.41497, 33470, 70877, 30422, 40422, 40422, 40422, 40422, 40422, 40422, 40422, 40422	26
27	1.43139, 37641, 58987, 31188, 50837, 09765, 34892, 76008, 86692, 57280, 75944, 895969	27
28	1.44715, 80313, 42419, 22213, 39604, 00164, 62224, 70199, 221169, 24182, 91944, 144399	28
29	1.46239, 99978, 89858, 08733, 23467, 62069, 25499, 12542, 94417, 88715, 38406, 653969	29
30	1.47712, 12547, 19662, 34729, 50279, 63255, 11530, 92001, 23864, 19069, 58648, 298656	30
31	1.49136, 16938, 34272, 67966, 67041, 00118, 41572, 23037, 01558, 30418, 46559, 383498	31
32	1.50614, 09978, 319905, 97666, 86944, 73622, 46513, 33400, 49407, 31054, 27005, 521373	32
33	1.52181, 39398, 77887, 43504, 52257, 74998, 13955, 00083, 10064, 865714, 89694, 264047	33
34	1.53747, 89170, 42255, 12375, 39087, 89082, 83005, 67757, 67259, 88713, 49384, 007959	34
35	1.55406, 80443, 50275, 63549, 84773, 93868, 14316, 67153, 82514, 86146, 68651, 920327	35
36	1.56930, 25094, 39324, 87459, 00558, 00510, 23061, 84002, 57728, 38139, 17295, 597313	36
37	1.58202, 17240, 66994, 99680, 83506, 89519, 12944, 79823, 72690, 16631, 25466, 176799	37
38	1.59778, 95966, 16810, 15075, 00723, 70481, 22344, 47193, 19218, 56606, 44022, 72443	38
39	1.60106, 46072, 62649, 00606, 163304, 197441, 97444, 00094, 58952, 57776, 41366, 110660	39
40	1.60205, 99913, 27942, 39042, 47497, 59948, 69899, 79942, 89942, 17082, 26942, 36942	40
41	1.61273, 38587, 19775, 46140, 04118, 49968, 18079, 995105, 13633, 83368, 76190, 97367	41
42	1.62324, 92903, 97900, 46322, 09830, 56572, 24452, 94518, 91141, 97076, 98126, 439281	42
43	1.63346, 84556, 99586, 52069, 00881, 52922, 22216, 88087, 77441, 34009, 34146, 74993	43
44	1.64345, 62674, 86187, 43117, 76777, 60602, 01293, 52430, 81953, 39067, 001772, 173939	44
45	1.65321, 25137, 75343, 67937, 63169, 11785, 73759, 16320, 67846, 91928, 31883, 493038	45
46	1.66275, 78316, 81574, 07408, 15160, 00975, 68257, 64657, 00915, 79820, 47295, 860329	46
47	1.67209, 78579, 35717, 46441, 42193, 99449, 200604, 01598, 03098, 43994, 78270, 373294	47
48	1.68124, 12373, 75587, 21814, 00833, 48116, 62741, 62741, 88890, 00913, 30007, 157555	48
49	1.69010, 80800, 28513, 66142, 44325, 17185, 2723, 86967, 47492, 64793, 08130, 272699	49
50	1.69897, 00043, 36018, 80478, 62611, 105275, 50697, 32318, 10118, 53789, 14586, 895725	50
51	1.70757, 01709, 97936, 36858, 51977, 97383, 45233, 98076, 96242, 61574, 22622, 102341	51
52	1.71622, 34346, 34799, 89635, 99929, 47931, 31454, 36611, 00901, 12128, 53448, 400309	52
53	1.72425, 86967, 00789, 04563, 39922, 01627, 25659, 26955, 02401, 29493, 77805, 941030	53
54	1.73239, 37598, 22068, 50709, 88226, 04489, 83895, 43685, 76474, 03479, 61358, 000244	54
55	1.74056, 26204, 00424, 38455, 93649, 76618, 58123, 49881, 13309, 00434, 46532, 861116	55
56	1.74818, 80270, 02401, 16353, 34329, 42766, 15997, 37881, 82040, 71029, 10304, 3904173	56
57	1.75587, 48556, 76291, 39883, 13613, 79012, 044607, 1512, 12001, 58519, 34637, 366243	57
58	1.76342, 79915, 62937, 28254, 65856, 57693, 74801, 80224, 84299, 34926, 23823, 758244	58
59	1.77082, 20011, 66244, 19026, 060563, 84535, 14423, 89267, 44474, 93076, 52155, 272857	59
60	1.77815, 12503, 83643, 61250, 87667, 97979, 68133, 55083, 18745, 65280, 44061, 102951	60



241	2.38201,70425,74868,38407,68839,66454,63294,43845,75422,87941,37116,090780	241
251	2.39967,37214,81038,13934,05493,16706,90408,18574,66685,39315,23086,55797	251
257	2.40993,12333,31294,53716,32854,65919,63183,09299,89891,62261,22190,657085	257
263	2.41996,63744,89757,86897,22335,53773,37652,55581,827682	263
269	2.42975,22800,02407,98008,72285,15871,27175,37709,54680,10337,16358,204492	269
271	2.43296,92908,74405,72952,11801,94875,18026,90280,82099,71147,47166,959683	271
277	2.44247,97969,64448,55377,77563,19599,75831,09223,84739,7272,00838,75546	277
281	2.44870,63199,05879,39179,16275,08871,55000,84994,87733,11091,225526	281
283	2.45178,64355,24290,23555,89519,10570,23772,98828,55938,13326,305411,834586	283
293	2.46686,76203,54109,45624,37585,12602,18133,14970,80293,87633,91801,487293	293
307	2.48713,83754,77186,48475,46084,36539,33504,92811,89817,26663,11352,567959	307
311	2.49276,03890,26857,50555,30231,83253,64155,85949,18519,90441,42367,782324	311
313	2.49554,43375,46448,8480,81265,04861,24315,15792,98693,98571,52993,196831	313
317	2.50105,92622,17751,49455,32290,16378,22488,04877,22158,71549,907278,111979	317
321	2.51982,79937,75718,73860,81406,07340,85663,05827,13549,69061,446087,295510	321
337	2.52762,99008,71338,62619,00147,90194,51019,87041,58106,86332,94145,590771	337
347	2.54032,94747,90873,71853,35573,03206,97397,86865,56176,91243,34952,050367	347
349	2.55282,54269,59179,80654,03719,77159,63066,31783,00866,73870,4181,990296	349
353	2.56477,47053,87824,56549,70693,15968,56119,79362,71500,87293,47356,171765	353
359	2.55509,44485,78319,14781,65293,94413,89970,02357,64461,12864,55018,194841	359
367	2.56466,60682,52089,33798,75290,93006,90914,75947,52157,57773,73388,529180	367
373	2.56170,8831,80868,60505,68969,38701,43991,49908,33032,45651,82266,82475	373
379	2.57863,92099,68072,34193,14620,59454,44405,29413,87210,96923,21381,081258	379
383	2.58319,77399,68622,74037,90461,29502,11234,47857,39787,51936,81090,65346	383
389	2.58994,96013,25707,73624,92469,11731,95270,14076,41221,26488,95645,064384	389
397	2.59879,05067,63115,00587,68482,40668,63112,25522,37562,91876,18078,588386	397
401	2.60314,43726,20182,30654,46411,48149,42549,75189,88063,37359,82761,562011	401
409	2.61174,33080,07341,80360,95027,17736,46679,00332,51595,65255,87279,407022	409
419	2.62221,40229,66295,30985,07395,99373,73621,25514,08166,90180,26232,814797	419
421	2.62428,20958,35668,30744,40699,23421,44371,09437,88488,01681,56998,058298	421
431	2.63447,72701,60731,60075,02803,26184,67878,49873,63233,16232,39160,168424	431
433	2.63648,78963,53305,44269,80664,49685,26766,08604,17833,58389,54652,63209	433
439	2.64246,45202,42121,37063,37411,50613,31363,46233,64623,31977,78492,69498	439
443	2.64640,37262,23069,56023,01044,89684,53902,83230,69450,39547,31960,218878	443
449	2.65224,63410,0323,17491,90263,53743,43105,35027,59942,01108,72112,409383	449
457	2.65991,62000,69850,22235,35461,45220,47714,05949,16155,52489,86526,587883	457
461	2.66370,09253,89648,14507,46818,18487,42133,71937,47244,04839,902463,622776	461
463	2.66553,09910,17953,13567,41931,08438,70855,40157,05450,46974,53748,83800	463
467	2.66968,18805,06611,12163,8038,80510,89779,99674,100106,14015,95688,77553,684228	467
479	2.68033,55134,14563,22009,69639,66962,31078,27266,76340,01805,94696,676822	479
487	2.68752,89612,14634,33246,32050,64435,75372,38433,54413,59009,69060,272887	487
491	2.69181,14921,22968,47275,36909,83546,39435,54324,95219,43164,65484,935064	491
499	2.69810,05456,23899,4116,59050,36033,38846,73162,68889,70588,04407,216866	499
503	2.70156,79850,55927,39709,82240,90279,52805,50061,79311,55264,13100,626989	503
509	2.70671,77823,33675,84656,80767,11564,25501,75116,31022,87955,59327,732505	509
521	2.71683,77232,99524,47423,63411,86589,82340,55592,48804,35659,103890,73518	521
523	2.71850,16888,67274,23926,01265,78801,07882,05229,27624,54022,80340,018542	523
541	2.73319,7265,80659,43687,93482,43895,35766,02744,51126,54918,07249,958843	541
547	2.73798,73263,33430,77812,26473,72542,06411,41123,32573,38734,83672,544294	547
557	2.74585,51951,73728,90044,34334,98899,38696,26667,22982,65562,88916,047639	557
563	2.75050,83948,51346,22909,45827,07761,08389,89309,27510,62997,46276,527041	563
569	2.75511,22663,95071,17228,70555,24030,20058,87808,40566,56954,49337,662164	569
571	2.75663,610824,45848,05004,02841,30031,39578,08047,33715,59899,19622,237455	571
577	2.76117,58313,55731,42284,88836,67563,87165,18349,94631,00807,86067,506949	577
587	2.76863,81012,47614,7606,38592,98596,71376,19981,12699,05673,24995,758554	587
593	2.77305,46933,64262,60639,66715,59821,78133,09249,84055,79640,65222,216122	593
599	2.77742,68223,89311,37982,81725,69101,74684,25198,87827,14494,37552,485037	599
601	2.77887,44720,02739,52088,58506,99987,83983,48917,52297,24032,80181,145090	601
607	2.78318,86910,75251,58096,01956,30455,95072,14062,42317,98488,79486,868541	607
613	2.78746,04745,18457,03774,22662,81456,45078,29583,85647,7870,60511,887769	613
617	2.79028,51640,33241,68204,54661,67275,45331,98845,73431,10231,176836,317560	617
619	2.79169,06490,20117,97679,79674,34394,50849,41105,79264,06695,48606,34085	619
631	2.80002,93592,44134,31301,69298,49975,36836,15526,14831,45926,22618,819406	631
641	2.80685,80295,18817,42224,83770,09638,02810,30784,64091,37064,08860,016375	641
643	2.80821,09729,24222,07249,19385,05465,83232,48443,16034,72535,33279,475692	643
647	2.81090,42806,68700,38445,84305,62795,35772,33374,45272,88620,55534,785384	647

653	2.81491,31812,75073,92142,93105,65465,57968,44420,93073,59911,14836,790768	659
659	2.81888,54145,94009,86128,04846,87065,03884,71245,85914,63114,16630,487450	661
661	2.82022,14594,85640,23664,65718,97680,09240,24475,89556,41077,27411,01763	673
673	2.82801,50642,23976,84647,61709,94824,66587,84392,73852,95699,07219,527269	677
677	2.83058,86886,85144,31600,60170,60287,15791,96987,21869,42085,75219,422835	683
683	2.83442,07036,81532,56339,98239,41016,94314,12519,92074,22395,15101,356100	691
691	2.83947,80473,74198,40758,33677,24326,62643,33706,67025,71535,20888,20081	701
701	2.84571,80179,66668,65706,40223,37250,30440,16828,66066,06710,99378,642626	709
709	2.85064,62351,83066,64285,38844,79778,83914,12079,23464,57372,91344,715434	719
719	2.85672,88903,82882,60776,76506,51400,88113,55319,50785,66409,97910,273675	727
727	2.86153,44108,59037,83621,34642,48678,39613,39988,70242,96505,05660,709999	733
733	2.86510,39746,41127,94317,28131,02559,86776,12051,12268,36141,01539,967269	739
739	2.86864,44389,04825,73669,38585,14263,09827,78685,62960,06015,93030,162466	743
743	2.87098,88137,60515,29242,26723,41223,78639,86402,35201,25826,22906,426196	751
751	2.87563,99370,05418,83974,59851,09251,08913,79777,06486,72300,99449,827788	757
757	2.87909,58795,00072,75709,02275,46289,28831,29598,55610,77568,18424,909661	761
761	2.88138,46567,70572,82636,87243,35559,42944,66262,26115,19329,16113,770466	769
769	2.88592,63398,01431,03960,48922,39900,86928,55483,24266,73676,35539,540497	773
773	2.88817,94939,18324,90897,46881,27193,74602,82128,27448,51788,65363,540475	787
787	2.89597,47323,59064,55847,49105,93093,84403,00557,33235,30892,05759,059372	797
797	2.90145,83213,96112,34726,66008,27220,37150,60763,80048,04080,90214,871170	809
809	2.90794,80432,12272,30432,36285,45880,42151,46893,16537,70803,38111,022662	811
811	2.90902,08542,11156,03069,03308,48322,97484,96977,10258,36812,36616,489430	811
811	2.91434,31571,19440,77180,40593,41703,71406,12897,21030,05294,12843,371072	823
823	2.91539,98352,12269,83976,77077,56599,55165,51291,17431,30959,46095,528115	827
827	2.91750,55095,52546,67071,16671,84496,53756,13593,71081,63043,50219,579982	829
829	2.91855,43305,60273,55311,51367,88077,88199,00092,68851,27047,81176,310395	839
839	2.92376,19608,87002,27499,86012,26886,40032,82838,28125,42235,16955,539741	853
853	2.93094,90311,67523,02999,86411,10,76276,53284,29746,89789,07727,91914,383868	857
857	2.93298,08219,23198,16429,25296,94730,29838,44651,50336,92085,47521,566946	859
859	2.93399,31638,31242,30262,85442,12269,31107,61700,39788,21370,78414,60087	863
863	2.93601,07957,15209,59266,36308,69754,18427,13577,12652,84446,77410,023962	877
877	2.94299,95933,66040,51822,80278,38057,14352,55114,87250,72799,32288,432988	881
881	2.94497,59084,12047,91274,23677,89471,82528,26645,36543,68702,11333,796900	883
883	2.94596,07035,77568,58561,59053,73327,89211,59413,79689,03497,15640,730610	887
887	2.94792,36198,31726,39219,65090,14904,07473,98873,98971,35988,60988,634764	907
907	2.95760,72870,60095,52854,72139,01553,62348,76134,78601,27524,63755,591947	911
911	2.95951,83769,79998,24763,28008,17777,19688,55416,00035,05336,77914,276734	919
919	2.96331,55111,86111,26519,69202,08586,23523,20678,28235,45128,04319,378878	929
929	2.96801,57139,93641,76318,47673,87869,08415,56826,51327,04702,63145,540055	937
937	2.97173,95908,87778,26302,75767,32122,15809,55792,61709,53802,51627,468099	941
941	2.97358,96234,27256,90834,22975,10551,79624,82320,81816,02752,59675,887850	947
947	2.97634,99790,03273,41875,01137,75925,22039,01622,95145,98964,50857,664310	953
953	2.97909,29006,38326,40853,29398,47717,31227,47302,58220,10598,20494,365710	967
967	2.98542,64740,83001,67359,77060,21186,62711,98227,26427,50112,13308,635787	971
971	2.98721,92299,08004,86280,3189,06536,25140,40531,99480,84889,06195,031834	977
977	2.98989,43637,18773,07091,48028,11052,34926,25914,08310,84838,41813,133125	983
983	2.99255,35782,3135,62274,96349,24741,43755,19748,99290,01915,16629,651606	991
991	2.99607,36544,82575,82364,44343,78815,42086,41325,12663,2128,08187,848418	997
997	2.99869,51583,11655,71988,13717,02813,27239,27091,29009,56252,34578,237114	1009
1009	3.00389,11662,36910,52171,52813,16509,55886,55201,95652,55260,09846,382385	1013
1013	3.00696,94453,60280,42845,01617,20070,22165,08630,76662,06266,76962,258954	1019
1019	3.00817,41840,06426,39400,89899,22311,83296,76922,24936,36781,15542,425256	1021
1021	3.00902,57420,86910,24724,81480,36966,37851,03031,35315,99655,45437,518936	1031
1031	3.01326,86662,83516,54690,96644,09013,44583,24998,28006,59445,12546,301730	1033
1033	3.01410,03215,19620,57904,40100,62744,77060,74356,51400,55318,40683,272162	1039
1039	3.01661,55475,57177,41240,21010,01361,62758,71828,97066,20230,27455,551393	1049
1049	3.02077,54881,91357,85990,72007,63899,91741,19141,56191,40400,29271,212177	1051
1051	3.02166,27160,28242,22008,37688,89097,91687,94575,69660,00863,13290,071500	1061
1061	3.02571,53839,01340,66612,28844,73990,78253,18778,56167,59546,12209,837461	1063
1063	3.02653,32645,23296,75697,14741,94622,85093,72551,33664,50701,42150,299662	1065
1065	3.02897,77052,08778,01749,01456,79857,36936,27594,48925,00824,96999,029595	1081
1081	3.03622,95440,86294,53992,62573,76344,44115,71246,06239,23536,42216,94710	1091
1091	3.03782,47505,88341,87761,10634,29318,59826,96526,11482,20421,01725,763338	1093
1093	3.03862,01619,49702,79226,92555,27640,43892,49476,76830,67575,50087,010561	1097
1097	3.04002,66275,74711,13221,54832,40551,60744,80236,80562,48547,77531,009418	

TABLE II. Briggs's Logarithms of thirty-five other Numbers.

TABLE II. Briggs's Logarithms of thirty-five other Numbers.											1st Diff. for thirty places.	2d Difference.	3d Diff.	4th Diff.				
999981	5.99999	17483	26432	69127	56375	77656	80862	21404	33907	11162	44159	559715	86	863	717	72397	26	95955
999982	5.99999	21826	8969	19111	89048	57107	10168	40410	5670	14159	21188	941908	86	863	566	321	26	95944
999983	5.99999	26169	31081	33884	54542	10302	66096	56534	44715	54105	62103	22884	86	863	196	60380	26	95934
999984	5.99999	30512	32699	26132	32931	50887	25574	53190	27922	27922	567449	86	862	293	54447	26	95934	
999985	5.99999	34855	33912	83342	10806	55801	27117	82444	36302	28023	25749	999959	86	862	67	4853	26	95933
999986	5.99999	39198	34692	90800	90370	79991	44324	54533	27180	67008	73189	81458	86	862	14	42611	26	95902
999987	5.99999	43542	35037	95595	39891	71981	52561	90607	87693	74442	46590	776319	86	861	189	30816	26	95892
999988	5.99999	47884	34947	70812	51610	74381	36349	49100	79656	19583	53030	647037	86	861	163	249519	26	95882
999989	5.99999	52227	34424	40559	11743	21900	04435	30663	49188	35071	97000	602711	86	861	137	19064	26	95871
999990	5.99999	56570	33460	90802	66478	51353	59168	69587	99461	62555	35383	630503	86	861	117	19064	26	95861
999991	5.99999	60913	32073	83868	21979	81676	75366	16434	44062	21833	50707	313658	86	861	11	3203	26	95850
999992	5.99999	65256	32747	76444	34843	35373	47431	31955	32774	39761	698523	86	860	85	64804	26	95840	
999993	5.99999	69599	27986	41277	59803	31257	71421	63830	70757	57134	27783	835002	86	860	59	37513	26	95829
999994	5.99999	73942	23291	44854	32151	52107	07978	00083	69792	45691	181804	395802	86	860	6	85819	26	95819
999995	5.99999	78285	22161	78422	13998	25095	04092	14234	22447	50631	11109	337233	86	860	6	85809	26	95809
999996	5.99999	82628	18598	02137	24866	38657	95736	45141	15918	21202	16170	793707	86	859	8	5788	26	95798
999997	5.99999	86971	14599	90116	72932	81775	18151	57854	94191	89892	50191	893880	86	859	47	8258	26	95788
999998	5.99999	91314	10167	60337	44173	83497	48126	62250	17919	35168	09327	863417	86	859	27	476	26	95778
999999	5.99999	95657	05300	94936	24557	87082	6424	16033	63057	1588	69140	086418	86	858	7	577	26	95767
1000000	6.00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	000000	86	857	6	576	26	95756
1000001	6.00000	04342	04264	75615	56407	43942	64367	77070	41684	13616	67145	121612	86	857	4	546	26	95746
1000002	6.00000	08685	88095	21869	79656	79336	05892	628197	45503	99122	29702	838046	86	857	2	536	26	95736
1000003	6.00000	13028	81491	13849	55598	62849	12347	44666	66663	43666	36481	80410	86	856	1	536	26	95725
1000004	6.00000	17371	74453	26664	17008	42405	94036	35955	4632	36143	7224	419302	86	856	0	536	26	95715
1000005	6.00000	21714	66980	85333	162193	08338	274570	78785	74099	46999	908138	86	855	9	562	26	95704	
1000006	6.00000	26037	13010	57693	60173	19985	15785	31751	240661	18355	46267	86	855	8	562	26	95694	
1000007	6.00000	30400	59073	15761	92339	68593	81858	13937	45828	32621	37859	440297	86	855	6	562	26	95684
1000008	6.00000	34743	41957	87671	28640	13998	19820	54722	98972	96773	54764	029504	86	855	4	562	26	95673
1000009	6.00000	39083	32783	08282	22139	17935	55443	33917	14207	90745	51048	56220	86	855	2	562	26	95663
1000010	6.00000	43292	32104	45318	68554	93347	16343	39717	24433	4482	49094	551444	86	855	0	562	26	95653
1000011	6.00000	47772	13026	31229	53293	21091	13983	24581	79988	15069	61100	748990	86	855	9	562	26	95642
1000012	6.00000	52115	02513	88047	65672	86728	06876	03587	1182	81825	33953	056166	86	855	8	562	26	95631
1000013	6.00000	56457	01567	17659	81593	46796	18845	38001	45216	29985	17739	523170	86	855	7	562	26	95621
1000014	6.00000	60800	80186	18152	98393	33379	44781	33746	93119	78031	21005	338144	86	855	6	562	26	95611
1000015	6.00000	65143	68370	90813	99946	03902	39079	10006	53681	84624	87961	816189	86	855	5	562	26	95600
1000016	6.00000	69483	73370	90813	99946	03902	39079	10006	53681	84624	87961	816189	86	855	4	562	26	95590

1. Any Number being given, to find it's Logarithm to 61 places of figures.

**I**F the given Number is in either of the Tables, it's Logarithm is found in the line even with it.  
If the given Number is the product or quotient of any two or more Numbers found in the Tables, the sum or difference of their Logarithms is the Logarithm of the given Number.

If the given Number is not in either Table, or is not the product or quotient of any there, then divide 999998000000 by the first six figures of the given Number, the quotient, if compos'd by the multiplication, or division, or both, of any Numbers in *Table 1*, or the nearest Number to the quotient so compos'd, will for the most part be a factor for multiplying the given Number to make the first six or seven figures of the product, with the residue as a decimal, near one of the Numbers in *Table 2*, whose Logarithm is there given; and the Logarithm of the fraction made by the product and that Number (found by the Series in page 13) added, if the product be the greater, or subtracted, if the less, will give the Logarithm of the product; then subtracting the Logarithm of the factor, the remainder is the Logarithm of the given Number: But if no such product can be had, then seek for some product compos'd of Numbers in the Tables, as shall have the first six, seven, or more figures thereof, the same as those of the given Number, or of some product of it made by one or more of the said Numbers, whereby it's Logarithm will be found as before.

Let the Logarithm of  $(\pi)$  3.14159, 2653589793, 2384626433, 8327950288, 41971, 69399, 373710, 58209, 74944, 59230 (the circumference of a Circle whose diameter is 1, or the measure of the Arc of 180 deg. when the radius is 1) be sought, and thereby the Logarithm of (M) the measure of the Arc of 1 min.

999998000000 divided by 314159 quotes 318310 nearly, which (being compos'd of 229x1390) is a fit multiplier for the Number 3.14159 &c. whose product 1000000.35756416708573504401, 53316, 98563, 06880, 9915, 15089, 93387, 545346, 13 &c. suits very well, being nearest 1000000 in *Table 2*: But if no such product could have been found, or that it is known, the product of some others (as 313x271 divided by 27) will suit nearer, and shorten the operation, instead of the multiplier 318310, take 27, then the product is 84.82300, 16469, 24417, 43849, 13713, 48346, 57783, 3235573783, 1278571663, 23504 &c. and the first five figures 84.823 (3.13x27.1) = 4.

$$\text{Let } \frac{b-a}{b+a} x \dots\dots\dots 0.00000, 16469, 24417, 43849, 13713, 48346, 57783, 3235573783, 12785, 71663, 23504 \\ 169, 64600, 16469, 24417, 43849, 13713, 48346, 57783, 3235573783, 12785, 71663, 23504 \dots\dots\dots = A.$$

A	.....	0.00000, 00097, 08006, 09180, 373710, 31835, 33802, 19572, 9877, 25804, 26330, 70055, 86639
A <sup>3</sup>	.....	0.00000, 00097, 08006, 09180, 373710, 31835, 33802, 19572, 9877, 25804, 26330, 70055, 86639
A <sup>4</sup>	.....	3.04978, 24422, 80129, 87165, 70018, 3585, 85688, 49896
A <sup>5</sup>	.....	..... 1724, 567496, 58350, 2313, 18262
A <sup>7</sup>	.....	..... 160, 94659

Natural Logarithm of  $\frac{b}{a}$  ..... 0.00000, 00097, 08006, 09180, 373710, 31835, 33802, 19572, 9877, 25804, 26330, 70055, 86639

This multiplied by 0.86858, 89638 &c. gives Briggs's Log. of  $\frac{b}{a}$ .

B

Briggs's

Briggs's Log. of $\frac{1}{2}$ . . . . .	0.00000,00084,32266,95190,70452,98319,82138,50447,38123,25534,00216,980009
Log. of 3.13 . . . . .	0.49554,43337,54644,8480,81265,04861,24315,51797,98693,98571,52993,196813
Log. of 27.1 . . . . .	1.43296,92908,74403,72952,11801,94875,18026,90280,28099,71147,47106,959682
Sum = Log. of $b$ . . . . .	1.92851,36368,73121,16623,65319,98056,24480,12520,64916,95553,00406,236505
Log. of 27 subtract . . . . .	1.43336,37641,58987,31188,50831,09765,34592,76003,86592,57208,175944,895969
Log. of (1) 3.14159 &c. . . . .	0.49714,98726,94133,85435,86949,70231,25614,99214,33198,11367,66355,49620,46771,104518
Log. of 10800 (=log. of 180 + log. of 60) subtract . . . . .	4.03342,37554,86949,70231,25614,99214,33198,11367,66355,49620,46771,104518
Log. of (M) 0.00029,08882 &c. . . . .	6.46372,61172,07184,15203,87067,89076,56689,25149,11968,88413,17690,236018

Note, The Index of this last Logarithm being  $-A$ , it's complement (6) is put down, that it may be like those of the Log. Sines, Tangents, &c.

## 2. Any Logarithm being given, to find it's corresponding Number to 61 places of figures.

If the given Logarithm is in either of the Tables, it's Number is found in the same line prefix'd.

If the given Logarithm is not in the Tables, then find the first seven or eight figures of the Number by any other Table of Logarithms; and if six or all of them be the component of numbers in these Tables, it will suit very well; but if not, the nearest number thereto, either greater or less, compos'd of these numbers will do; for the Logarithm of such component is had in these Tables; then the number answering to the difference of the two Logarithms (found by Dr. Halley's Rule in page 17, for finding the Number from the Log. given) multiplied by that component, gives the number sought.

Let the Example be to find the number represented by  $\overline{1.06}^{\overline{1587}}$ , or the Amount of one pound for one day, at the rate of 6 l. per cent. per ann. compound interest.

The Log. of 1.06 (=log. of 0.53 + log. of 2) . . . . . 0.02530,58632,64770,24084,67311,86351,74961,94565,92282,75704,63219,045503  
 The Log. of 1.06 = L. . . . . 0.00006,93311,37711,69928,99910,44346,16917,70396,26554,19933,43134,846699  
 To which the nearest number of six figures (found in Sherwin's Table) answering, tho' greater, compos'd of numbers in Table 1, is  
 1.00016 (=7.6X0.47X0.28) =  $b$   
 Log. of  $b$  (=log. of 7.6 + log. of 0.47 + log. of 0.28) = 0.00006,94815,58728,03751,77247,12696,73825,86672,64357,99684,49976,894931  
 From which subtract L. . . . . 0.00006,93311,37711,69928,99910,44346,16917,70396,26554,19933,43134,846699  
 There will remain  $l$  . . . . . 0.00000,01504,21016,33822,77336,68350,56908,16276,37803,79751,06042,048232  
 This multiplied by  $m$  = 2502 58 &c. produces  $m l$  = 0.00000,03463 &c. =  $A$ .

A	.....	0.00000,03463,57189,89341,69713,23305,54845,82225,33861,41751,01028,013306
A <sup>2</sup>	.....	119,63350,29908,64503,38236,86101,09366,37764,19766,537177
A <sup>3</sup>	.....	4,15501,52514,24837,28993,16427,39396,16938,866927
A <sup>4</sup>	.....	14391,19406,44779,60302,49067,81615,535389
A <sup>5</sup>	.....	498,449353383,40809,76217,006709
A <sup>6</sup>	.....	17,26415,17395,73003,83899
A <sup>7</sup>	.....	5979,63082,412032
A <sup>8</sup>	.....	2071,064666
$1+\frac{1}{2}A^2$	.....	1.00000,00000,00059,98165,14954,32251,69118,43050,51818,18882,09783,268588
$\frac{1}{2}A^4$	.....	599,63308,60199,15012,60377,825673,13975
$\frac{1}{10}A^6$	.....	2397,79885,27184,727534
$\frac{1}{100}A^8$	.....	51306
Sum of the affirmative part	.....	1.00000,00000,00059,98165,14954,32251,69118,43050,51818,18882,09783,268588
A	.....	0.00000,03463,57189,89341,69713,23305,54845,82225,33861,41751,01028,013306
$\frac{1}{10}A^3$	.....	69250,25419,04139,54832,19404,56566,02823,14488
$\frac{1}{100}A^5$	.....	4,15374,46128,19506,74801,808389
$\frac{1}{1000}A^7$	.....	11,86421,246511
Sum of the negative part	.....	0.00000,03463,57189,89341,69713,23305,54845,82225,33861,41751,01028,013306
Remainder of the Series	.....	0.99999,96536,42870,08822,75990,85126,73447,50817,70834,41309,54461,148789

Which multiplied by 1.00016 gives  $(1.061)^{\frac{1}{100}}$  . . . . 1.00015,96733,87452,94744,7155,00980,35475,25977,83917,74660,15413,862573

If it was required to find the number represented by  $\frac{1}{1.051}^{\frac{1}{100}}$ , or the Amount of one pound for one day at the rate of  $\frac{1}{5}$  l. per cent. per ann. compound interest.

The Log. of 1.05 ( $=\log. \text{ of } 0.21 + \log. \text{ of } 5$ )  $= 0.02118,92900,69938$  &c. and  $\frac{1}{100}$  thereof is 0.00005,80528,747164 &c.  $= L$ , to which the nearest number of eight figures answering, but less, composed of numbers in Table 1, is 1.0001374 ( $= 1.51 \times 0.83 \times 0.42 \times 1.9$ )  $= a$ ; this will converge swifter than the preceding. Such expedients may be found for most Numbers, that can be proposed.

Note, Any Number produced between the Numbers in Table 2, it's Logarithm. may be most easily had to 30 places, by the several differences annex'd.

*The Method of constructing the natural Sines, Tangents, and Secants, by Mr. Sharp.*

**Figure 1.** **A** Chord or Subtense is a right line connecting the extremities of an arc, as FO is the Chord of the arcs FEO and FDO.

A Sine ( $s$ ) is half the Chord, or a right line drawn from one end of an arc falling perpendicularly on the diameter that terminates in the other end; FR is the Sine of the arcs FE, and FD.

The Radius ( $r$ ) is the semidiameter, or sine of  $90^{\circ}$  deg. and is the greatest of all sines.

The Co-sine ( $cs$ ) is that part of the radius, which is intercepted betwixt the center and the sine; or it is the Sine of the complement or difference of the arc from a quadrant or  $90^{\circ}$  deg. as CR=FW is the Co-sine of the arc FE, or the Sine of it's complement FB:  $E^{\circ}$  is the double of the Co-sine of the arc D $^{\circ}$  or the chord of it's supplement, viz. of  $\frac{1}{2}E$ ; so  $E^{\circ}$ ,  $E^{\circ}$ ,  $E^{\circ}$ ,  $E^{\circ}$ , are the double Co-sines of the arcs D $^{\circ}$ , D $^{\circ}$ , D $^{\circ}$ , D $^{\circ}$ .

The Versed-sine ( $v$ ) of any arc less than  $90^{\circ}$  deg. is the excess of the radius above the co-sine of the arc, as ER=EC-CR is the Versed-sine of the arc FE. The Versed-sine of a greater arc than  $90^{\circ}$  deg. is the sum of the radius and the co-sine, as DR=DC+CR is the Versed-sine of FD.

The Tangent ( $t$ ) of an arc is a right line perpendicular to the radius at one end of the arc, and terminated by another right line call'd Secant ( $f$ ) drawn from the center, thro' the other end of the arc; so EH is the Tangent and CH the Secant of the arc FE.

The Co-tangent ( $ct$ ) and the Co-secant ( $cs$ ) of an arc, are the Tangent and Secant of the complement of that arc to  $90^{\circ}$  deg. so BI is the Co-tangent, and CI the Co-secant of the arc FE.

The length of any Arc is readily obtain'd from the proportion of the diameter of the Circle to it's circumference exhibited by *Ludolf Van Ceulen*, since prolong'd and confirm'd to 74 places by *Mr. Sharp*, which is as 1 to 3.14159,26535,8-9793,23846,26433,83279,50188,41971,69399,37510,582-09,74944,59230,78164,052+ =  $\pi$ . This number (the Radius being 1) is the length of the semiperiphery, or arc of  $180^{\circ}$  deg. whence the length of any arc is easily found; for the length of the arc of 1 min. is ( $\frac{\pi}{180}$ ) 0.00029,08882,08665,72159,61539,48461,41477 = M. And M multiplied by the number of minutes ( $a$ ) contain'd in any other arc, gives the length (A) of that arc.

†

Hence

Hence by Sir Isaac Newton's Series, publish'd by Dr. Halley in *Phil. Transf.* N<sup>o</sup>. 219; The Sine, Co-sine, Tangent, Co-tangent, Secant, and Co-secant of any arc are readily found.

$$\begin{aligned} \text{Sine} = & A - \frac{1}{2} A^3 + \frac{1}{120} A^5 - \frac{1}{5040} A^7 + \frac{1}{362880} A^9 - \frac{1}{39916800} A^{11} \\ & + \frac{1}{6227020800} A^{13} - \frac{1}{1307674368000} A^{15} + \frac{1}{355687428096000} A^{17} \\ & - \frac{1}{121645100408832000} A^{19} + \frac{1}{51090942171709440000} A^{21} \text{ \&c.} \end{aligned}$$

$$\begin{aligned} \text{Co-sine} = & 1 - \frac{1}{2} A^2 + \frac{1}{24} A^4 - \frac{1}{720} A^6 + \frac{1}{40320} A^8 - \frac{1}{3628800} A^{10} \\ & + \frac{1}{479001600} A^{12} - \frac{1}{87178291200} A^{14} + \frac{1}{20922789888000} A^{16} - \\ & \frac{1}{6402373705728000} A^{18} + \frac{1}{24329020881766400000} A^{20} \text{ \&c.} \end{aligned}$$

$$\begin{aligned} \text{Tangent} = & A + \frac{1}{3} A^3 + \frac{2}{15} A^5 + \frac{17}{315} A^7 + \frac{62}{2835} A^9 + \frac{1382}{155925} A^{11} \\ & + \frac{21844}{6081075} A^{13} + \frac{629169}{638512875} A^{15} + \frac{6404582}{10854718875} A^{17} \text{ \&c.} \end{aligned}$$

$$\begin{aligned} \text{Co-tangent} = & A^{-1} - \frac{1}{3} A - \frac{1}{45} A^3 - \frac{2}{945} A^5 - \frac{1}{4725} A^7 - \frac{2}{93555} A^9 \\ & - \frac{1382}{638512875} A^{11} - \frac{4}{18243225} A^{13} - \frac{3617}{162820783125} A^{15} \text{ \&c.} \end{aligned}$$

$$\begin{aligned} \text{Secant} = & 1 + \frac{1}{2} A^2 + \frac{5}{24} A^4 + \frac{61}{720} A^6 + \frac{277}{8064} A^8 + \frac{50521}{3628800} A^{10} \\ & + \frac{540553}{95800320} A^{12} + \frac{199360981}{87178291200} A^{14} + \frac{3878302229}{4184537977600} A^{16} + \\ & \frac{2404879661671}{6402373705728000} A^{18} \text{ \&c.} \end{aligned}$$

$$\begin{aligned} \text{Co-secant} = & A^{-1} + \frac{1}{2} A + \frac{7}{360} A^3 + \frac{31}{15120} A^5 + \frac{127}{604800} A^7 \\ & + \frac{73}{3421440} A^9 + \frac{1414477}{653837184000} A^{11} + \frac{8191}{37362124800} A^{13} + \\ & \frac{118518239}{533531421440000} A^{15} \text{ \&c.} \end{aligned}$$

Let the Sines and Co-sines of the Arcs of 5 min. and of 29 deg. 55 min. be sought: The number of minutes contain'd in the former Arc is 5, and in the latter 1795; therefore  $0.00029,08882 \text{ \&c.} \times 5 = 0.00145,44410,43328,60798,077$  — is the length of the former, and  $0.00029,08882 \text{ \&c.} \times 1795 = 0.52214,43345,54970,265096$  — the length of the latter: Put each = A.

The

The Powers of A for 0 deg. 5 min.

A	0.00145444104332860798077
A <sup>2</sup>	211539874851880971
A <sup>3</sup>	307672276285175
A <sup>4</sup>	447491186523
A <sup>5</sup>	650849548
A <sup>6</sup>	946622

A	0.00145444104332860798077
$\frac{1}{120}A^5$	5423746

$A + \frac{1}{120}A^5$	0.00145444104332866221823
$-\frac{1}{2}A^3$	—51278712714196

Sine 0° 5'.	0.00145444053054153507627
-------------	---------------------------

$1 + \frac{1}{120}A^4$	1.000000000000018645466105
$-\frac{1}{2}A^2$	—105769937425940486
$-\frac{1}{720}A^6$	—1315

Co-sine 0° 5' = .99999894830081219524304  
which is the Sine of 89° 55', and also of 90°  
5'; because the Sine of a greater arc than 90  
deg. is the same as the Sine of it's supplement  
to 180 deg.

The Powers. of A for 29° 55' divided by the divisors of the Co-efficients of  
the two Series.

Series for the Sine.

A	0.522144334554970265096
120) A <sup>5</sup> (	323423523786751280
362880) A <sup>6</sup> (	7949724864276
6227020800) A <sup>12</sup> (	34434763
85568742809 &c.) A <sup>17</sup> (	45

Affirm. part	0.522467766028516315460
--------------	-------------------------

6) A <sup>3</sup> (	0.023725777866212440546
5040) A <sup>7</sup> (	2099439937046834
39916800) A <sup>11</sup> (	19103371838
1307674368000) A <sup>15</sup> (	44705

Negat. part	—0.023727877325852903923
-------------	--------------------------

Sine 29° 55' =	.498739888702663411537
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Co-sine of 29° 55', or the Sine of 60° 05'	.866751708055343213217
Out of which subtract the Sine of 0° 05'	.001454440530541535076
There remains the Sine of . . . 59 55	.865297267524801678141
Out of the Sine of . . . . . 89 55	.999998942300812195243
Subtract the Sine of . . . . . 29 55	.498739888702663411537
There remains the Sine of . . . 30 05	.5012590535598148783706

Since these two Series converge the swiftest next the beginning  
and end of the quadrant; no more than the first and last thirty  
degrees need be calculated for making a Table of Sines, because the  
intermediates may be had from them by subtraction only, as above.

TABLES

The Powers of A for 29° 55'.

A =	0.522144334554970265096
A <sup>2</sup>	272634706107852715229
A <sup>3</sup>	142354667197274643284
A <sup>4</sup>	74329682974515222625
A <sup>5</sup>	38810822854416153754
A <sup>6</sup>	2026485127284682134
A <sup>7</sup>	1058117728271604570
A <sup>8</sup>	5524901717109193815
A <sup>9</sup>	28847961587483767
A <sup>10</sup>	1506279970636409
A <sup>11</sup>	786495552921559
A <sup>12</sup>	4106641971107
A <sup>13</sup>	21442598404
A <sup>14</sup>	11196131269
A <sup>15</sup>	5845996511
A <sup>16</sup>	305245396
A <sup>17</sup>	159382154
A <sup>18</sup>	83220489
A <sup>19</sup>	43453107
A <sup>20</sup>	22688793
A <sup>21</sup>	1184684
A <sup>22</sup>	618576

Series for the Co-sine.

1.00000000000000000000000000000000	
24) A <sup>4</sup> (	. . . 3097070123938134276
40320) A <sup>1</sup> (	. . . 137026333608431
479001600) A <sup>12</sup> (	. . . . 857333665
20922789888000) A <sup>16</sup> (	. . . . 1459

Affir. part	1.003097207151129077831
-------------	-------------------------

2) A <sup>2</sup> (	0.136317353053926357612
720) A <sup>6</sup> (	.28145626767842807
3628800) A <sup>10</sup> (	.415090379915
87178291200) A <sup>14</sup> (	.284280

Neg. part	0.136345499095785864614
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# TABLES for the more ready computing the Sines, &c. by means of the Powers of $M$ , the length of the Arc of 1 min.

Table 1. The Powers of  $(M)$  the Length of the Arc of 1 min. viz. of 0.000290888 &c.

$M^{-1}$	= 3437.46770.849592326018893
$M^0$	0.00029088820866572159615395
$M^1$	(7) 8461594994752386707429
$M^2$	(10) 24615782103815838777464
$M^3$	(14) 71998589843759141740070
$M^4$	(17) 20827185542642824237546
$M^5$	(21) 6038586942479879295603
$M^6$	(24) 1762312089283270901942
$M^7$	(28) 51265580676148497209095
$M^8$	(31) 149119711526553744734
$M^9$	(35) 4537716576276702730969
$M^{10}$	(38) 1261790645273597238
$M^{11}$	(42) 36704008673421318839
$M^{12}$	(45) 106767106322384037456
$M^{13}$	(49) 3107439003310804620
$M^{14}$	(53) 9042427965112726604
$M^{15}$	(56) 262795470373998561429
$M^{16}$	(60) 76444103225581513279
$M^{17}$	(63) 22236688568227590957
$M^{18}$	(67) 64683904453966886781
$M^{19}$	(70) 188157850961056798222

Table 2. The Products of the several Powers of  $M$  by their respective Co-efficients in the two Series for the Sine and Co-sine.

0.0009088820866572159615395	3.5562738827028158479613
(7) 423079749707367194353713	96.4637261172071841520387
(11) 41022970171356396929107	92.6264223387393871508657
(15) 2983214576823297575029	88.61302101279085236073
(19) 1735598795220235353125	84.4746932271171305852186
(23) 84144204083998045744	80.2394493399882959324710
(27) 349665997079965692499	75.950242068118364520009
(32) 127141817151346074427	71.5436522940047637733274
(37) 410933049313148628950	67.1042884142200043397249
(41) 11953584309762240161	62.6137720219878630171735
(46) 316105149859488339849	58.0774981391950477692023
(51) 7662650659413581550	53.4698315712440068805008
(55) 1714587394958180280	48.8843764424035662048170
(60) 3562519816890780354	44.284159207309135876492
(65) 6908633858240978124	39.551757888328597137620
(69) 12360249937066067880	34.839392146984326237194
(74) 21491932968158181761	30.098998281535621994931
(79) 34731945788173883406	25.322754773562322184016
(84) 5317421848431808000	20.5407293894084103006365
(89) 7733883507971551335	15.7257016057227654911389

Table 3. The Logarithms of  $M^{-1}$ , and of the several Products in Table 2.

99.6989700043363188047863	3.5562738827028158479613
99.221878496163503674912	96.4637261172071841520387
98.619788582883939770038	92.6264223387393871508657
97.9208187539523731722775	88.61302101279085236073
97.1426675035087315397087	84.4746932271171305852186
96.297569465544747090565	80.2394493399882959324710
95.394479476562531234153	75.950242068118364520009
94.4402369671532062488352	71.5436522940047637733274
93.44202369671232062488252	67.1042884142200043397249
92.3988442819649812080750	62.6137720219878630171735
91.3196630359173563803525	58.0774981391950477692023
90.2057190836105190111400	53.4698315712440068805008
89.0595916479322815852201	48.8843764424035662048170
87.883500388876600343188	44.284159207309135876492
86.6793804062206756228358	39.551757888328597137620
85.4489314848424016337436	34.839392146984326237194
84.193658979790955639398	30.098998281535621994931
82.9149053787862666024035	25.322754773562322184016
81.613875381222854071893	20.5407293894084103006365

Note, The Logarithms of the Powers of  $M$  are had, by multiplying the Logarithm of  $M$  (found in page 42.)

by the Index of the Power; and the Logarithm of  $M^{-1}$ , by taking it's arithmetical complement.

Ip

In the preceding Tables are the Powers of the length of the arc of 1 min. and the Product of each when multiplied by (*i. e.* divided by the divisor of) the respective co-efficient belonging to each term of both the Series for the Sine and Co-sine; and also the Logarithms of those products, and co-efficients; so that the powers of the number of minutes contain'd in any Arc, being multiplied respectively by those products, give the several terms of the Series, for the Sine and Co-sine.

These Tables (having a proper Title to each, and the numbers in all belonging to each power being in the same line, with the symbol of the power prefix'd in Table 1) need no other explication than that the figures in the first and second Tables enclosed thus ( ) denote the number of cyphers, or decimal places, that must precede the first figure of the following number.

The Use of the first Table was principally to compose the second; though the Tangent, Co-tangent, Secant, and Co-secant of any number of minutes, may be easily made thereby from their proper Series; but the Sine and Co-sine most readily from the 2d Table as express'd above; whereof I shall give an Example in making the Sine and Co-sine of 44 deg. 37 min. which being near 45 deg. is as laborious as any that can be propos'd.

Let 44 deg. 37 min. = 2677 min. =  $a$ ; the powers of  $a$  must be rais'd, which (since  $a$  consists only of four figures) is done more expeditiously than the powers of (A) the length of the arc can be; because A must consist of so many places as are intended in the Sine sought; yet here a due account must be kept of the number of places every power extends to, tho' no more figures need be express'd in any, than are requir'd in the Sine, fewer will suffice in most; the reason is, that after multiplication with the respective numbers, *viz.* those which answer the same power in the second Table, the number of cyphers preceding the first figure of each product may be rightly determin'd.

In the adjoining Table of the powers of 2677, the number of places in each is express'd by the figures before it, enclos'd in a parenthesis, as the number of cyphers to be prefix'd to each power, was in the former two of the foregoing Tables.

The Powers of 2677 =  $a$ .

$a^1$	(4)	7677
$a^2$	(7)	7166529
$a^3$	(11)	19184262733
$a^4$	(14)	51356271338241
$a^5$	(18)	137480738367117157
$a^6$	(21)	368035936608772629289
$a^7$	(24)	985232202301684328607
$a^8$	(28)	263746666556160894768
$a^9$	(31)	706049810308842715294
$a^{10}$	(35)	189009534219677194884
$a^{11}$	(38)	505978523106075850705
$a^{12}$	(42)	135450450635496505234
$a^{13}$	(45)	36260085635122413
$a^{14}$	(48)	97068249245222700
$a^{15}$	(52)	85985170322946117
$a^{16}$	(55)	69562300954526755
$a^{17}$	(59)	186218279655268
$a^{18}$	(62)	498506334637152
$a^{19}$	(66)	133450145782366
$a^{20}$	(69)	357246040259393

The

# Tangents and Secants, by Mr. Sharp.

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The powers of (a) 2677 multiplied by the respective numbers (M, aM<sup>2</sup>, aM<sup>3</sup>, bM<sup>4</sup>, bM<sup>5</sup>, cM<sup>6</sup>, cM<sup>7</sup>, &c.) in Table 2. where l, a, b, c, &c. and 1, a, b, c, &c. are the Co-efficients of the several terms in order of the Series for the Sine and Co-sine.

For the Sine.

For the Co-sine.

Mk<sup>1</sup>a<sup>1</sup>=A=0.7787077345981367129042  
bM<sup>2</sup>x<sup>2</sup>=bA<sup>2</sup>...23861140397595692433  
dM<sup>4</sup>x<sup>4</sup>=dA<sup>4</sup>...2901398369620122  
fM<sup>6</sup>x<sup>6</sup>=fA<sup>6</sup>...62171025743  
hM<sup>8</sup>x<sup>8</sup>=hA<sup>8</sup>...400419

1.0000000000000000000000  
bM<sup>4</sup>x<sup>4</sup>=bA<sup>4</sup>...153209858637846616232  
dM<sup>6</sup>x<sup>6</sup>=dA<sup>6</sup>...33533240691184292  
fM<sup>8</sup>x<sup>8</sup>=fA<sup>8</sup>...1937903309223  
hM<sup>10</sup>x<sup>10</sup>=hA<sup>10</sup>...8737199  
kM<sup>12</sup>x<sup>12</sup>=kA<sup>12</sup>...28

Affirm. part 0.7810941387829503867559

Affirm. part ...1.0153243392905450046974

aM<sup>3</sup>x<sup>3</sup>=aA<sup>3</sup>...0786995437855323009621  
cM<sup>5</sup>x<sup>5</sup>=cA<sup>5</sup>...344501313664126849  
eM<sup>7</sup>x<sup>7</sup>=eA<sup>7</sup>...359844468696980  
gM<sup>9</sup>x<sup>9</sup>=gA<sup>9</sup>...179522015  
iM<sup>11</sup>x<sup>11</sup>=iA<sup>11</sup>...709

aM<sup>3</sup>x<sup>3</sup>=aA<sup>3</sup>...0.3031928679614810625065  
cM<sup>5</sup>x<sup>5</sup>=cA<sup>5</sup>...309680909625457906  
eM<sup>7</sup>x<sup>7</sup>=eA<sup>7</sup>...223934135157361  
gM<sup>9</sup>x<sup>9</sup>=gA<sup>9</sup>...3458075623  
iM<sup>11</sup>x<sup>11</sup>=iA<sup>11</sup>...17314

Neg. part -0.56787359953183408346174

Neg. part ...-0.3035023714648429333269

Sine 44° 37' 0.7023601432666095521385

Co-sine 44° 37' 0.7118217678257020713705

A considerable part of the labour both in raising the powers, and multiplying them by the numbers in the second Table in this method, or by the co-efficients of the two Series in the former, may be saved, in working by the Logarithms, for which the third and fourth Tables may be very serviceable, especially when the Powers ascend high, as in the preceding Example.

Note, The Indices of the Logarithms in the third and fourth Tables consisting of two figures are of the same kind with those of the Log. Sines, Tangents, &c.

The Powers of A for 29° 55' multiplied by (1, 2, 3, 4, 5, &c.) the several terms in order of the Series for the Tangent, Co-tangent, Secant and Co-secant.

For the Tangent.

For the Co-tangent.

1A<sup>1</sup>...0.52214433455  
2A<sup>2</sup>...4745155573  
3A<sup>3</sup>...517477638  
4A<sup>4</sup>...57104766  
5A<sup>5</sup>...6308902  
6A<sup>6</sup>...697690  
7A<sup>7</sup>...77029  
8A<sup>8</sup>...8511  
9A<sup>9</sup>...940  
10A<sup>10</sup>+11A<sup>11</sup>...116

Affirm. part 1A<sup>1</sup>...1291517295949022  
2A<sup>2</sup>...17404611351832  
3A<sup>3</sup>...318343704883  
4A<sup>4</sup>...8213930768  
5A<sup>5</sup>...273940260  
6A<sup>6</sup>...6187059  
7A<sup>7</sup>...170229  
8A<sup>8</sup>...4702  
9A<sup>9</sup>+10A<sup>10</sup>...133

Tang. 29° 55' ...37542264018

Neg. part ...-17729599069861  
Co-tang. 29° 55' ...1473789326879761

For the Secant.

For the Co-secant.

1+A<sup>2</sup>...1.736317332054  
2A<sup>2</sup>...15885350620  
3A<sup>3</sup>...1716883233  
4A<sup>4</sup>...189781471  
5A<sup>5</sup>...20970781  
6A<sup>6</sup>...2317171  
7A<sup>7</sup>...256035  
8A<sup>8</sup>...28291  
9A<sup>9</sup>...3126  
10A<sup>10</sup>+11A<sup>11</sup>...388

1A<sup>1</sup>...1.91517925949022  
2A<sup>2</sup>...8702405573916  
3A<sup>3</sup>...27680074172  
4A<sup>4</sup>...7957245427  
5A<sup>5</sup>...222190727  
6A<sup>6</sup>...6155014  
7A<sup>7</sup>...170146  
8A<sup>8</sup>...4700  
9A<sup>9</sup>...35

Secant 29° 55' ...1.153732944170

Co-secant 29° 55' ...2.00503318032759

Altho' the Series for the *Tangent* and *Secant* converge so slowly, that except near the beginning of the Quadrant (where they are of excellent Use) it were better to make the *Sine* and *Co-sine* first, and from thence deduce them by the proportions given in page 52, yet the two Series for the *Co-tangent* and the *Co-secant* are of much quicker dispatch, as may be seen in the foregoing Examples.

*Note*, The *Versed-sine* of any Arc is readily had from the *Co-sine*; for if the Arc is less than 90 deg. then  $v = r - s$ , and if above 90 deg.  $v = r + s$ .

## P R O P. I.

*Fig. 1. The Sine of an Arc FR being given, to find it's Co-sine CR.*

$CFq - FRq = CRq$ ; therefore  $\sqrt{CFq - FRq} = CR$ , i. e.  $\sqrt{rr - ss} = cs$ .

## P R O P. II.

*The Sine of an Arc FR being given, to find EV the Sine of half the Arc.*

CR is found by the first, and consequently ER; then  $\sqrt{FRq + ERq} = FE$ , but  $\frac{1}{2} FE = EV$ ; therefore  $\frac{1}{2} \sqrt{ss + vv} = s \frac{1}{2} \text{ Arc}$ .

## P R O P. III.

*To find the Sines of the double, triple, quadruple, quintuple, &c. of any Arc whose Sine is given.*

Let the chords  $D\beta$ ,  $\beta\gamma$ ,  $\gamma\delta$ ,  $\delta\epsilon$ ,  $\epsilon\zeta$  be all equal, draw the chords  $D\gamma$ ,  $D\delta$ ,  $D\epsilon$ ,  $D\zeta$ ,  $D\eta$ ,  $E\beta$ ,  $E\gamma$ ,  $E\delta$ ,  $E\epsilon$ , and  $E\zeta$  produced, draw the radius  $C\delta$ , and make  $\gamma\zeta = D\gamma$ ,  $\delta\eta = D\delta$ ,  $\epsilon\theta = D\epsilon$  and  $\beta\lambda = E\beta$ ,  $\gamma\mu = E\gamma$ ,  $\delta\pi = E\delta$ ,  $\epsilon\tau = E\epsilon$ ,  $\eta\sigma = E\zeta$ , then are the Triangles  $EC\beta$ ,  $D\beta\gamma$ ,  $D\gamma\zeta$ ,  $D\delta\theta$ ,  $D\epsilon\pi$ ,  $E\beta\lambda$ ,  $E\gamma\mu$ ,  $E\delta\pi$ ,  $E\epsilon\tau$ ,  $E\zeta\sigma$ , all isosceles and equiangular. In the triangles  $E\beta\lambda$ ,  $E\gamma\mu$ , the angles  $E\beta\lambda$ ,  $E\gamma\mu$ , are equal, the Angles  $ED\beta$ ,  $E\gamma\delta$  being subtended by the same diagonal  $E\delta$  do both together make two right angles, so also do the angles  $ED\beta$ ,  $\delta D\lambda$ ; therefore the angles  $E\gamma\beta$ ,  $\beta D\lambda$  are equal; but  $\beta\lambda = E\gamma$ , and  $D\delta = \beta\gamma$  by construction, therefore the triangles  $E\gamma\beta$ ,  $\beta\lambda D$  are equal, consequently  $D\lambda = E\gamma$ , in the same manner may be prov'd  $\beta\mu = E\delta$ ,  $\gamma\pi = E\epsilon$ ,  $\delta\tau = E\zeta$ ; likewise  $\delta\zeta = D\beta$ ,  $\epsilon\theta = D\gamma$ ,  $\eta\sigma = D\delta$ . Therefore (1)  $C\beta : E\beta :: D\beta : D\gamma$ , i. e. radius : double the co-sine of an Arc :: the chord of the arc : the chord of double the arc (and halving the latter two terms) :: the sine of the arc : the sine of twice the arc; again (2)  $C\beta : E\delta :: \frac{1}{2} D\gamma : \frac{1}{2} D\zeta$ , i. e.  $r : 2cs \text{ Arc} :: s\beta \text{ Arc} : s\gamma \text{ Arc} + s\delta \text{ Arc}$ ; (3)  $C\beta : E\epsilon :: \frac{1}{2} D\delta : \frac{1}{2} D\theta$ , i. e.  $r : 2cs \text{ Arc} :: s\delta \text{ Arc} : s\gamma \text{ Arc} + s\epsilon \text{ Arc}$ ; (4)  $C\beta : E\zeta :: \frac{1}{2} D\epsilon : \frac{1}{2} D\pi$ , i. e.  $r : 2cs \text{ Arc} :: s\epsilon \text{ Arc} : s\gamma \text{ Arc} + s\delta \text{ Arc}$ ; again (5)  $C\beta : E\delta :: \frac{1}{2} E\beta : \frac{1}{2} E\lambda$ , i. e.  $r : 2cs \text{ Arc} :: cs \text{ Arc} : cs \text{ Arc} + cs \text{ Arc}$ ; (6)  $C\beta : E\epsilon :: \frac{1}{2} E\gamma : \frac{1}{2} E\mu$ , i. e.  $r : 2cs \text{ Arc} :: cs \text{ Arc} : cs \text{ Arc} + cs \text{ Arc}$ ; (7)  $C\beta : E\zeta :: \frac{1}{2} E\delta : \frac{1}{2} E\tau$ , i. e.  $r : 2cs \text{ Arc} :: cs \text{ Arc} : cs \text{ Arc} + cs \text{ Arc}$ ; (8)  $C\beta : E\delta :: \frac{1}{2} E\epsilon : \frac{1}{2} E\sigma$ , i. e.  $r : 2cs \text{ Arc} :: cs \text{ Arc} : cs \text{ Arc} + cs \text{ Arc}$ ; (9)  $C\beta : E\epsilon :: \frac{1}{2} E\zeta : \frac{1}{2} E\sigma$ , i. e.  $r : 2cs \text{ Arc} :: cs \text{ Arc} : cs \text{ Arc} + cs \text{ Arc}$ , &c. *Ex: gr* Suppose  $D\beta = \beta\gamma$ , &c. be 5 min. it's sine is .0014544405305415; then radius = 1 : 2cs 5 min. = 1.9999978846016244 :: 5 min. = .0014544405295415 :: 10 min. = .0029088779843619 (2)  $r : 2cs 5 \text{ min.} = 1.99$

6c.

$\text{E}^c. : : s \text{ 10 min. } = .002908 \text{ E}^c. : : s \text{ 5 min. } + s \text{ 15 min. } = .0058177498 -$   
 $152881, \text{ out of which subtract } s \text{ 5 min. } 60145 \text{ E}^c. \text{ there rests } s \text{ 15}$   
 $= .0043633092847466 ; \text{ E}^c. \text{ again by (5th) } r : 2cs \text{ 5 min. } = 1.9999 -$   
 $978846016244 : : cs \text{ 5 min. } = .9999989423008122 : 1 + cs \text{ 10 min.}$   
 $= 1.9999957692054862. (6) r : 2cs \text{ 5 min. } = 1.9999978 \text{ E}^c. : : cs$   
 $10 \text{ min. } 9999957692054862 : cs \text{ 5 min. } + cs \text{ 15 min. } = 1.999989 -$   
 $4230215467, \text{ out of which subtract } cs \text{ 5 min. } = .999998942 \text{ E}^c. \text{ rests}$   
 $cs \text{ 15 min. } = .9999904807207345 (7) r : 2cs \text{ 5 min. } = 1.9999978 \text{ E}^c.$   
 $: : cs \text{ 15 min. } = .9999904807207345 : cs \text{ 10 min. } + cs \text{ 20 min. } = 1.999 -$   
 $9788460632304, \text{ out of which subtract } cs \text{ 10 min. } = .999995769205 -$   
 $4862, \text{ rests } cs \text{ 20 min. } = .9999830768577442, \text{ E}^c. \text{ By this last}$   
 $\text{method after the first Co-sine is obtain'd, the whole work may be accom-}$   
 $\text{plish'd; and it has these advantages, the two first terms are invariable,}$   
 $\text{the first being the radius } = 1, \text{ division is wholly excluded; the se-}$   
 $\text{cond being fix'd, a small Table of it's products to 10 or 100, turns}$   
 $\text{multiplication into addition; from the fourth term the (Sine if had, or)}$   
 $\text{Co-sine of such an Arc must be subtracted, as is so much less than the}$   
 $\text{Arc of the third term, as the Arc of which the (Sine or) Co-sine}$   
 $\text{sought exceeds it; viz. so much as is the distance of the first in that}$   
 $\text{rank from the beginning of the Table.}$

# P R O P. IV.

*Having the Sines of the first or last 30 deg. of the quadrant given,*  
*to find those of the middle 30 deg. viz. of all between 30 deg. and*  
*60 deg.*

Make the Arc  $DL = 30 \text{ deg.}$  draw the radius  $CL$  and perpendicular  
 thereto, the chords  $MG$  less than  $60 \text{ deg.}$  and  $ea$  greater than  $120 \text{ deg.}$   
 draw  $MP, eh$  parallel to  $CB$ , and  $SG, ah$  to  $CD$ , then in the Tri-  
 angles  $MQG$ ,  $ah$  the angles  $QMG, hea$  are  $= 30 \text{ deg.}$  therefore  
 drawing the semicircles  $MQG, eh$ , 'tis manifest the lines  $QG, ha$ , be-  
 ing the chords of  $60 \text{ deg.}$  are equal to the radius  $MK$  or  $KG$ , and  $eg$   
 or  $ga$ . In the triangle  $MQG$ ,  $MGq, (= 4GKq) - QGq = MQq$ ;  
 but because  $GK = QG$ ,  $3GKq = MQq$ , therefore  $GK \times \sqrt{3} = MQ$ ,  
 and  $YG$  (i. e.  $PQ$ )  $+ GK \times \sqrt{3} = MP$ , that is, if to the sine of an  
 arc less than  $30 \text{ deg.}$  the sine of it's defect multiplied by  $\sqrt{3}$  be added,  
 the sum will be the sine of an arc as much exceeding  $30 \text{ deg.}$  The sine  
 of  $11 \text{ deg.} = .190808995376545$  multiplied by  $\sqrt{3}$  ( $1.7320508075 -$   
 $68773$ ) produces  $330490874533350$ , which added to the sine of  $19$   
 $\text{deg.} = .325568154457157$  makes  $.656059028990507$  the sine of  $41$   
 $\text{deg.}$  In the triangle  $eha$ ,  $eaq (= 4egq) - ahq = ehq$ ; but because  $eg$   
 $= ah$ ,  $3egq = ehq$ , and  $eg \times \sqrt{3} = eh = ek + kh$ ; therefore  $eg\sqrt{3}$   
 $- ek = kh = ra = rn$ , that is, if the sine of an arc greater than  $60 \text{ deg.}$  be  

h 2
multi-

multiplied by  $\sqrt{3}$ , and out of the product the line of an arc wanting so much of 90 deg. be subtracted, the remainder is the line of an arc so much exceeding 30 deg. The line of 83 deg. = .992546151641322 multiplied by  $\sqrt{3}$  (1.7320508 &c.) produces 1.719140363499733, from which subtracting the line of 67 deg. = .920604853452440 there remains .798635510047293 the line 53 deg.

## P R O P. V.

*Having all the Sines under 60 deg. to find all the rest by addition only, or having all above 30 deg. to find the Sines of the first 30 deg. or having the Sines of the first and last 30 deg. to find all the intermediate by subtraction only.*

In the triangle MQG,  $MK = QG$  (by 4th) therefore  $ZM \perp MK = SG$ , that is, if to the line of any arc  $ZM$  less than 60 deg. the line of the defect  $KM$  be added, the sum is the line of an arc so much exceeding 60 deg. The Sine of 41 deg. = 656059021990507 — line of 19 deg. = 325568154457157, makes line of 79 deg. = 816297183447664. Also in the triangle  $cha$ ,  $cg = ah$  therefore  $cg - em$  (i. e.  $hp$ ) =  $pa$  the line of the arc  $Bn$ , that is, from the line of an arc exceeding 60 deg. subtract the line of the excess, and there will remain the line of an arc wanting so much of 60 deg. The Sine of 67 deg. = 920504853452440 — line of 7 deg. (12869343405148) = line of 53 deg. = 798635510047292.

By a continual bisection (by the 2d) the line of an arc a little less than 1 min. may be found, and from that by proportion the line 1 min. But the line of 1 min. may be obtain'd from the length of it's arc by the Series in the other method with incomparably less labour and greater exactness, from which (by the 3d.) the sines and co-sines of all arcs under 30 deg. being computed, the rest are had (by the 5th) by subtraction; or having the first 30 deg. made (by the 3d) all to 60 deg. may be got (by 4th) and all the rest by addition (by 5th) or the last 30 deg. being obtain'd (by 3d) the rest above 30 deg. are made (by 4th) and the first 30 deg. by subtraction (by 5th.)

## P R O P. VI.

*The Sines being made, the Tangents and Secants are thus obtain'd.*

The triangles  $CFR$ ,  $CWF$ ,  $CEH$ ,  $CBI$  are equiangular; then  $CR : RF :: CE : EH$ , i. e. Co-sine : Sine :: Radius : Tangent, and  $RF (= CW) : CR (= WF) :: CB : BI$ , i. e. Sine : Co-sine :: Radius : Co-tang. and  $CR : CF :: CE : CH$ , i. e. Co-sine : Rad. :: Rad. : Secant, and  $CW : CF :: CB : CI$ , i. e. Sine : Rad. :: Rad. : Co-secant.

A N



Fig 3



7.2





## A N E A S Y

*Quadrature of the CIRCLE,**From  $2\sqrt{3}$  or  $\sqrt{12}$ , communicated by Dr. HALLEY,*

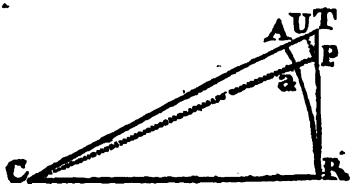
**M**ANY have been the attempts in all Ages to exhibit a square equal to the area of a Circle, or which is all one, to find the ratio of the diameter to the circumference: This *Archimedes* near two thousand years since shew'd to be nearly as 7 to 22; and consequently the area to the circumscrib'd square as 11 to 14, contenting himself in small and integer numbers: though his method was capable of extream exactness, as has been since made appear by the most elaborate calculus of *Ludolf Van Ceulen*. This Gentleman by the continual bisection of an arc perform'd by extraction of the square-root (analogous to Mr. *Briggs's* method for making the first Logarithm) carried his work so far as to assure us, that the diameter being 1, the circumference was 3.1415,9265,3589,7932,3846,2643,3832,7950, 288 $\frac{1}{2}$ , the last figure being not an unit less than the truth. And this was look'd upon as so valuable a performance, that it was engraven on his Tomb-stone to perpetuate the memory thereof. However, it might be question'd, whether it was really so exact, unless by him that had taken the pains to examine it throughout; and most lovers of these matters have chosen rather to take it upon credit, than give themselves that trouble.

Now since his time, as there have been many abortive Essays towards a perfect quadrature, by those that knew not enough to see the impossibility thereof; so very much has been done towards facilitating the Calculus by methods far differing from that of *Archimedes*; and particularly the doctrine of Fluxions, and of infinite Series, both invented by the most illustrious Sir *Isaac Newton*, and properly called, *The Geometry of Curve-lines*, both afford us many solutions of this problem. Amongst them that, which performs it with the least work, is deriv'd from the tangent of 30 degrees =  $\sqrt{\frac{1}{3}}$ .

Now the fluxion of the tangent of an arc, is to the fluxion of the arc it self, as the square of the secant to the square of the radius, which may be thus demonstrated.

Let

Let C be the center of a circle, CR the radius  $= r$ , AR any arc  $= a$ , RT it's tangent  $= t$ , and CAT it's secant; draw the line CaP infinitely near to CAT, and the line TP will be the fluxion of the tangent  $= \dot{t}$ , and Aa the correspondent fluxion of the arc  $= \dot{a}$ . With the center C, and radius CP, draw the infinitely little arc UP. Now *ob similia triangula*, TP : UP :: CT : CR, and again,



UP : Aa :: CT : CR = CA. Wherefore *ex æquo* TP : Aa :: CT : CR<sup>2</sup>; CR<sup>2</sup> : that is,  $rr + tt$ , is to  $rr$ , as  $\dot{t}$  to  $\dot{a}$ . If therefore  $rr + tt$  be divided by  $rr + tt$ , the quotient will be  $t - \frac{ttt}{rr} + \frac{t^4}{r^4} - \frac{t^6}{r^6} + \frac{t^8}{r^8}$ , &c.  $= \dot{a}$  the fluxion of the arc; and it's fluent will be the arc itself, viz.  $t - \frac{t^3}{3rr} + \frac{t^5}{5r^4} - \frac{t^7}{7r^6} + \frac{t^9}{9r^8}$ , &c. Now the radius being 1, and the tangent of 30 degrees  $\sqrt{\frac{1}{3}}$ , 'tis evident that  $\frac{1}{3}\sqrt{\frac{1}{3}}$  is the cube thereof, and  $\frac{1}{9}\sqrt{\frac{1}{3}}$  the fifth power:  $\frac{1}{27}\sqrt{\frac{1}{3}}$  the 7th power, &c. *in infinitum*. Whence 'tis obvious, that the arc of 30 deg. is  $= \sqrt{\frac{1}{3}} - \frac{1}{9}\sqrt{\frac{1}{3}} + \frac{1}{45}\sqrt{\frac{1}{3}} - \frac{1}{189}\sqrt{\frac{1}{3}}$ , &c. or  $\sqrt{\frac{1}{3}} \times 1 - \frac{1}{9} + \frac{1}{45} - \frac{1}{189} + \frac{1}{729}$ , &c. six times this arc is the circumference of the circle, whose radius is unity; or the whole circumference, when the diameter is unity; therefore  $\sqrt{12}$  or  $2\sqrt{3} \times 1 - \frac{1}{9} + \frac{1}{45} - \frac{1}{189} + \frac{1}{729}$ , &c. is equal to the said circumference.

Hence comes this Rule: Divide the square root of 12 continually by 3, and the several quotients again by all the odd numbers successively, viz. the first quote by 3, the second by 5, the third by 7, &c. then to the  $\sqrt{12}$  add the  $\frac{1}{5}$  of the second quote,  $\frac{1}{9}$  of the fourth,  $\frac{1}{13}$  of the sixth, &c. *in infinitum*, and from the sum subtract  $\frac{1}{3}$  of the first quote,  $\frac{1}{7}$  of the third,  $\frac{1}{11}$  of the fifth, &c. *in infinitum*, and the remainder shall be circumference sought.

An

An *Example* of this proceſs diſpoſed according to the manner of  
*William Jones, Eſq; F. R. S.*

A=√12 . . . . .	3464101615138	A . . . . .	3464101615138
C=√B . . . . .	384900179460	√C . . . . .	76980035894
E=√D . . . . .	42766686607	√E . . . . .	4751854067
G=√F . . . . .	4751854057	√G . . . . .	365527236
I=√H . . . . .	527983785	√I . . . . .	31057870
L=√K . . . . .	58664865	√L . . . . .	2793563
N=√M . . . . .	6518318	√N . . . . .	260733
P=√O . . . . .	724258	√P . . . . .	24974
R=√Q . . . . .	80473	√R . . . . .	2458
T=√S . . . . .	8941	√T . . . . .	242
W=√V . . . . .	993	√W . . . . .	24
Y=√X . . . . .	110	√Y . . . . .	2

Sum of the affirmative part . . . . . 3.546233172181

B=√A . . . . .	1.154700538379	√B . . . . .	0.384900179460
D=√C . . . . .	128300059820	√D . . . . .	18328579974
F=√E . . . . .	14255562202	√F . . . . .	1295960200
H=√G . . . . .	1583951356	√H . . . . .	105596757
K=√I . . . . .	175994595	√K . . . . .	9262873
M=√L . . . . .	19554955	√M . . . . .	850215
O=√N . . . . .	2172773	√O . . . . .	80473
Q=√P . . . . .	241419	√Q . . . . .	7738
S=√R . . . . .	26824	√S . . . . .	766
V=√T . . . . .	2980	√V . . . . .	76
X=√W . . . . .	331	√X . . . . .	8
Z=√Y . . . . .	37	√Z . . . . .	1

Sum of the negative part . . . . . — 0.404640518591

The Diameter being 1, the Circumference is . . . . . 3.141592653590

This Work (being to be perform'd in an hour's time) is ſufficient to exhibit the circumference from the diameter given ſo truly, as not to err the breadth of a grain of ſand in a Globe as large as the Earth; and the compendium of this method tempted the incomparable Mr. *Sharp* to continue this to double the places of *Ludolf's Van Ceulen*, after he had done the ſame, by a double computation to 74 places from different Series, viz. from the Sines and Co-sines of 6, and of 12 degrees; which is ſufficient to give the number of grains of ſand that may be comprehended within the Sphere of the fix'd Stars, if the diameter was  $12000 \times 5280 \times 8000 \times 100000 \times 100000$ ; for then the number of grains would conſiſt but of 65 places: So that here you have the *Dimenſio Circuli*, and the *Arenarius* of *Archimedes* both in one.

Hence it appears that *Ludolf's* number is ſufficiently true for all future ſquarers of the Circle to ſquare their Work by.

†

The

The QUADRATURE of the CIRCLE, computed from  $\sqrt{12}$ , or  $2\sqrt{3}$ , by Mr. Sharp.

The affirmative part consisting of  $2\sqrt{3}$  (or A), and it's quotients made by a continual division by 9, and those quotients again divided respectively by 1, 5, 9, 13, 17, 21, 25, &c.

1) A.	3.4641,0161,5157,7343,8705,4892,6830,1174,4733,8836,1050,7620,7612,5611,1613,9389,0386,6034
3x9) A.	769,8003,1801,9501,0193,4553,1707,3594,3274,4190,8023,3502,0835,1834,6914,6976,8,6455,0356
9x9) A.	47,5185,4007,4043,2727,9910,6895,5145,6439,9641,7779,2191,5236,7799,1922,6528,9287,2244
13x9) A.	3,6552,725,5954,1790,2173,5191,5039,5,8187,6895,5217,800,8864,3676,8609,4348,3791,8250
17x9) A.	31057,869721,596910,326,2136,5719,9061,6991,12273,3151,5785,8613,0666,1611,3301,8773
21x9) A.	279,5565,0014,1347,8706,5966,4641,4730,4173,846,9013,65340,5272,0747,7499,4291,1741
25x9) A.	26,073,573346,525,8012,6151,2690,8708,1722,8884,3714,6058,4492,603,1233,2800,5096
29x9) A.	2497463997,5720,8621,8980,0067,9374,3460,0467,8524718,2422,6111,4102,8046,0258
33x9) A.	2438,5777,5407,0875,3588,6201,319,3803,863,15411,2857,2761,8037,81447182,9453
37x9) A.	2413,6608,5851,1528,2065,5389,3707,3260,0404,9274,9922,1985,4039,7534,1612,7243
41x9) A.	242315,7639,8716,9204,4056,3325,6608,5094,3717471,8755,6638,1354,6448,9724
45x9) A.	24530,7318,6536,7746,6186,3941,6107,1663,9183,3126,7822,6221,5543,30973,3034
49x9) A.	25031,359,0462,9361,8998,6116,4908,8945,2977,8892,4879,8594,6494,2152,7861
53x9) A.	2571,5555,1443,16,0022,9181,7778,89011,521,89376,5910,0903,8528,7558,6719
57x9) A.	26,5656,6153,9276,3121,4761,4702,3036,2308,9422,9226,5785,3883,0878,8213
61x9) A.	26781,8348,8504,0979,8046,2748,654474621852,6317,212,6903,8943,671
65x9) A.	2876,0543,2561,9657,1723,21754,6118,3410,5868,3963,1367,4771,3583,5694
69x9) A.	301,0363,2300,3667,18763,146,6179,8385,6491,8611,2784,0354,4926,7423
73x9) A.	31,6156,8479,0339,5487,9234,5763,1814,9514,9306,2073,2092,243,4478
77x9) A.	333303,6795,0497,5282,2776,5135,1129,1341,6608,0131,8099,1508,5161
81x9) A.	3517,6725,9117,5713,6863,39116,9697,7439,3798,1039,0114,2760,7486
85x9) A.	3724,5594,5123,3399,3079,082,8808,5611,2284,5050,1506,2651,1381
89x9) A.	39,3244,1118,1749,6144,9583,3269,3229,6359,5292,44008,0306,3005
93x9) A.	4,2027,1516,7473,9753,4096,9128,9961,0984,2271,7413,5181,9125
97x9) A.	447,1192,5057,5048,5762,9013,7418,5962,5808,6638,5534,8429
101x9) A.	477,7563,9967,6175,9206,8222,5885,1463,3337,1501,5838,1315

3.5462,3317,2182,1216,8116,8891,2068,8337,7260,58456,6289,2593,1926,3228,6000,6370,3313,68867

3-3462,3317,12182,1216,816,8891,2068	8337,2605,8456,6289,2593,5926,3028,6006,8370,3313,5867
105X9 <sup>10</sup> A	51,0617,9509,7605,33629,5122,2025,8198,7266,7318,6871,9400
109X9 <sup>11</sup> A	514623,2975,0514,0412,9447,335,5158,8851,1781,8167,3036
112X9 <sup>12</sup> A	5857,6297,2277,3804,337,24277,5823,3220,0571,7955,0015
117X9 <sup>13</sup> A	628,5965,4195,0085,3677,2500,82317,525,0371,7925,2297
121X9 <sup>14</sup> A	67,5551,6566,4058,7583,0103,3942,2544,0122,7110,3383
125X9 <sup>15</sup> A	7,2037,8226,2534,3197,8171,1206,2355,8448,5538,0911
129X9 <sup>16</sup> A	7820,6096,1111,7915,3549,8622,5488,3553,9140,6218
133X9 <sup>17</sup> A	842,8225,9613,5514,6873,7946,7909,7726,5616,6585
137X9 <sup>18</sup> A	90,9127,31745,8250,9760,1092,3951,3380,9536,1035
141X9 <sup>19</sup> A	9,8148,5030,0851,3662,0448,9031,7835,5564,5734
145X9 <sup>20</sup> A	1,0604,5958,9977,0441,6462,2952,8593,7051,8047
149X9 <sup>21</sup> A	1146,6516,6328,6140,2227,4666,7804,1739,3823
153X9 <sup>22</sup> A	124,0748,7133,55973,0524,2502,0708,9556,4037
157X9 <sup>23</sup> A	13,4348,5807,9691,3496,2563,9185,0461,5214
161X9 <sup>24</sup> A	1,4556,7481,8986,5713,5535,2658,4211,4968
165X9 <sup>25</sup> A	1578,2063,0940,6316,4169,2880,8119,8997
169X9 <sup>26</sup> A	171,2058,1916,6365,6862,5460,4431,1528
173X9 <sup>27</sup> A	18,5830,3567,9586,2562,4728,8470,6903
177X9 <sup>28</sup> A	2,0181,1979,0689,5506,5534,6456,6412
181X9 <sup>29</sup> A	2192,8005,0922,0668,6656,9872,8211
185X9 <sup>30</sup> A	28,3765,1181,5177,948,5977,1655
189X9 <sup>31</sup> A	25,9257,2291,9128,6843,5545,4295
193X9 <sup>32</sup> A	2,8209,3358,1874,1055,4945,5576
197X9 <sup>33</sup> A	3070,7286,0294,2483,622,3655
201X9 <sup>34</sup> A	334,4021,7511,3139,4699,6164
205X9 <sup>35</sup> A	36,4408,0066,9256,3324,9989
209X9 <sup>36</sup> A	3,9703,9619,5743,4590,4815
213X9 <sup>37</sup> A	4328,7052,9426,566,0885
	529,9178,7647,4428,9605
3-5462,3317,12182,1216,816,8891,2126,0170,4108,1390,5765,6888,8276,3014,0180,6815,53459,8480	
105X9 <sup>10</sup> A	51,0617,9509,7605,33629,5122,2025,8198,7266,7318,6871,9400
109X9 <sup>11</sup> A	514623,2975,0514,0412,9447,335,5158,8851,1781,8167,3036
112X9 <sup>12</sup> A	5857,6297,2277,3804,337,24277,5823,3220,0571,7955,0015
117X9 <sup>13</sup> A	628,5965,4195,0085,3677,2500,82317,525,0371,7925,2297
121X9 <sup>14</sup> A	67,5551,6566,4058,7583,0103,3942,2544,0122,7110,3383
125X9 <sup>15</sup> A	7,2037,8226,2534,3197,8171,1206,2355,8448,5538,0911
129X9 <sup>16</sup> A	7820,6096,1111,7915,3549,8622,5488,3553,9140,6218
133X9 <sup>17</sup> A	842,8225,9613,5514,6873,7946,7909,7726,5616,6585
137X9 <sup>18</sup> A	90,9127,31745,8250,9760,1092,3951,3380,9536,1035
141X9 <sup>19</sup> A	9,8148,5030,0851,3662,0448,9031,7835,5564,5734
145X9 <sup>20</sup> A	1,0604,5958,9977,0441,6462,2952,8593,7051,8047
149X9 <sup>21</sup> A	1146,6516,6328,6140,2227,4666,7804,1739,3823
153X9 <sup>22</sup> A	124,0748,7133,55973,0524,2502,0708,9556,4037
157X9 <sup>23</sup> A	13,4348,5807,9691,3496,2563,9185,0461,5214
161X9 <sup>24</sup> A	1,4556,7481,8986,5713,5535,2658,4211,4968
165X9 <sup>25</sup> A	1578,2063,0940,6316,4169,2880,8119,8997
169X9 <sup>26</sup> A	171,2058,1916,6365,6862,5460,4431,1528
173X9 <sup>27</sup> A	18,5830,3567,9586,2562,4728,8470,6903
177X9 <sup>28</sup> A	2,0181,1979,0689,5506,5534,6456,6412
181X9 <sup>29</sup> A	2192,8005,0922,0668,6656,9872,8211
185X9 <sup>30</sup> A	28,3765,1181,5177,948,5977,1655
189X9 <sup>31</sup> A	25,9257,2291,9128,6843,5545,4295
193X9 <sup>32</sup> A	2,8209,3358,1874,1055,4945,5576
197X9 <sup>33</sup> A	3070,7286,0294,2483,622,3655
201X9 <sup>34</sup> A	334,4021,7511,3139,4699,6164
205X9 <sup>35</sup> A	36,4408,0066,9256,3324,9989
209X9 <sup>36</sup> A	3,9703,9619,5743,4590,4815
213X9 <sup>37</sup> A	4328,7052,9426,566,0885
	529,9178,7647,4428,9605

Affirmative part

Negative part

Diagram 1, the Circumfer. is. . . . . 3-1415,9265,3389,7932,3846,2643,3852,7950,2884,1971,6939,9375,1038,2097,4944,5923,0781,6405

The negative part consisting of  $\frac{1}{3}A$  (or  $B$ ), and it's quotients made by a continual division by 9, and those quotients again divided respectively by 3, 7, 11, 15, 19, 23, 27, &c.

3 B	0.3849,0017,9459,7505,0967,2765,8536,6797,1637,0284,0116,7513,4179,1734,5734,8843,2265,1782
7x9 B	185,2857,9974,2738,3379,3941,12311,2704,6268,4332,7119,8453,0199,0082,5987,3754,4393,5799
11x9 B	12,9596,0200,2011,8216,7248,3698,7766,9938,1720,4848,8719,5064,5763,4160,7235,1623,7885
15x9 B	10559,6757,0534,2949,5109,1204,3447,6809,7769,8172,8715,3671,9284,4264,9478,4206,3828
19x9 B	926,2873,4257,3942,9395,5574,0653,3053,4892,0892,3571,5234,3796,8795,1708,6333,8932
23x9 B	850215,4352,1279,7867,2232,4021,3178,8226,8101,2308,4973,2039,3271,0543,3045,1400
27x9 B	8,0473,0058,8433,8892,7824,4660,4539,5593,4840,8772,4092,1159,5247,8775,7037,1943
31x9 B	7787,7160,5332,5118,6563,6580,0439,3121,9500,7281,3008,9142,5345,5687,9713,2769
35x9 B	766,4101,5127,9418,0264,9949,1471,8053,2712,7700,6896,1153,7097,5988,3400,3542
39x9 B	76,4226,6465,7491,8260,0422,2796,3338,6452,8403,2026,6781,7089,5041,5723,6820
43x9 B	77015,0884,1452,6646,3608,4467,8475,9875,0924,3537,5722,1877,23685305,4873
47x9 B	7828,9569,7830,8853,3038,2109,0240,9679,9739,551,1007,2200,2864,8860,8475
51x9 B	801,6579,0409,6985,1836,1566,7193,0446,5332,7879,9602,0464,9530,8271,1557
55x9 B	82,5950,5678,5749,9886,1494,7528,9803,5822,1660,3593,5623,6618,3276,4219
59x9 B	8,5550,4354,6546,6089,9024,8802,4367,6026,7780,2612,2880,0403,0282,8686
63x9 B	8902,7735,3167,9892,9328,1621,4175,8157,6259,3219,327,9034,2833,6671
67x9 B	930,0675,8590,6854,4876,0766,4167,6227,5042,0187,0840,2289,2534,8607
71x9 B	975188,2238,1469,8758,5244,6790,6584,0853,3916,3296,2368,3567,8180
75x9 B	10,25753328,7532,3869,4151,6625,3877,7332,3152,6805,9745,8293,4297
79x9 B	10820,1827,9275,5682,4277,6315,3362,6500,8771,3798,0987,8029,977
83x9 B	1144,3031,3337,6883,5365,3688,3688,9528,4729,5033,5338,5253,4965
87x9 B	121,2990,5500,6059,1615,9969,5205,853,3924,0725,1383,2664,1637
91x9 B	12,8852,4760,1376,2499,3549,878,1309,3017,5754,6850,2370,9185
95x9 B	13714,1237,807,2965,6389,5159,4618,8847,4846,4050,7269,882
99x9 B	1462,2241,3234,2235,3936,0317,6193,9327,1728,8535,5046,6457
103x9 B	156,1598,5879,3330,9643,6538,7748,8666,0087,5474,6273,1952
c. 0.4046,4051,8592,3284,4370,6247,8274,5156,6280,4835,0483,7070,4457,1256,3286,4918,0169,2220	

0.45464051,8592,3284,4370,6247,8214,5156,6280,4835,0483,1070,4457,1236,3286,4918,0169,2230	107X9 <sup>1</sup> B	16,7024,5034,0357,8290,0273,6176,6700,5180,7034,1502,1299	111X9 <sup>11</sup> B	1,7889,5178,0198,4861,8948,2253,1568,3339,5748,4024,7527	115X9 <sup>11</sup> B	1918,5859,6716,9390,9858,2154,6863,8706,8549,3388,1619	119X9 <sup>11</sup> B	206,0106,3139,5406,1282,6281,7233,8516,6088,0059,4198	125X9 <sup>11</sup> B	22,1456,7762,9677,8042,1253,4165,3346,2,9416,9323,4607	127X9 <sup>11</sup> B	2,3831,3066,3561,1285,1730,6826,1921,2089,4861,5798	131X9 <sup>11</sup> B	2567,0703,5006,1605,8035,4509,6916,6230,3214,0972	135X9 <sup>11</sup> B	276,7787,7848,4008,5269,6659,0696,2957,0521,0261	139X9 <sup>11</sup> B	29,8682,1350,5468,5460,7553,1370,0338,3308,0244	143X9 <sup>11</sup> B	3,2258,5988,9091,0084,7280,4087,3604,1381,3639	147X9 <sup>11</sup> B	5486,5702,9856,3977,4120,2558,1903,9166,6932	151X9 <sup>11</sup> B	377,1547,4134,7722,3911,4625,5002,7194,6313	155X9 <sup>11</sup> B	40,8246,3508,4739,5204,7532,9394,5595,9780	159X9 <sup>11</sup> B	44219,5558,2204,4903,3799,8641,6189,6212	163X9 <sup>11</sup> B	4792,7125,9420,2565,8060,1079,7664,7259	167X9 <sup>11</sup> B	519,7685,6477,4535,3469,9272,1237,0927	171X9 <sup>11</sup> B	56,4011,3730,8217,9356,2773,5182,9724	175X9 <sup>11</sup> B	6,1235,5205,0006,5187,2329,6962,7227	179X9 <sup>11</sup> B	6651,9032,2070,8508,8773,9893,5298	183X9 <sup>11</sup> B	722,9451,5877,7670,3615,5094,6824	187X9 <sup>11</sup> B	78,6090,1013,4470,3958,1926,5163	191X9 <sup>11</sup> B	8,5514,1646,0236,1628,9598,7542	195X9 <sup>11</sup> B	9306,6697,6584,1066,1717,0154	199X9 <sup>11</sup> B	1013,2890,0298,1020,6049,5913	203X9 <sup>11</sup> B	110,3691,9080,0888,3964,8980	207X9 <sup>11</sup> B	12,0262,7253,1933,0888,2846	211X9 <sup>11</sup> B	1,3109,2070,2860,0049,4339	215X9 <sup>11</sup> B	1429,4794,2275,6904,6153	175,0296,7648,3643,1895
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Negative part

Affirmative part

Diam. 1, the Circumfer. is . . . 0.4046, 4031, 8592, 3284, 4370, 6247, 8293, 2220, 1223, 9418, 8825, 7513, 7218, 0916, 5236, 0892, 2678, 2075  
 + 3.5462, 3217, 2182, 1216, 8216, 8891, 2126, 0170, 4108, 1390, 5765, 6888, 8226, 3014, 0180, 4815, 3459, 8480  
 3.141592653589793238462643383279502884197169299375105820974944592307816403

*The Quadrature of the Circle, from the Tangent of 18 Deg.  $\equiv \sqrt{1-2\sqrt{\frac{1}{3}}}=A$ .*

A better Expedient for finding the length of the circular Arc is offer'd by the Tangent of 18 deg. than at first view does appear; for altho<sup>o</sup>, there be required the extracting two square roots for obtaining A, and a large multiplication, or another extraction to get A<sup>1</sup>; but this being done, the higher powers are rais'd easier than in any other Method, except that of Dr. Halley's; for  $A^2 \equiv 1 - 2\sqrt{\frac{1}{3}}$ , confeq-  $\frac{1}{3} \equiv 1 - \frac{1}{2}A^2$ , and  $A^2 \equiv 2A^2 - \frac{1}{3}$ , therof.  $A^3 \equiv 2A - \frac{1}{6}A^3$ , and the reciprocal  $A^{-1}$  is the tang. of 18 deg.  $\equiv \sqrt{1-2\sqrt{\frac{1}{3}}}$ , and A<sup>1</sup>  $\equiv 2A^3 - \frac{1}{3}A^5$ , or which is readier gotten  $\frac{1}{3}A^3 \equiv A^3 - \frac{1}{6}A^5$ , and  $\frac{1}{6}A^7 \equiv A^7 - \frac{1}{18}A^9$ , &c.; so that from any odd power, subtracing  $\frac{1}{18}$  of the odd power next less, the remainder will be half the odd power next greater.

*The affirmative powers of the Tangent of 18 deg.*

A	32491069622906326155871412215134464959034731
A <sup>3</sup>	3621430814942678364195136002747037225952259
A <sup>5</sup>	40363084477389004867633121283955541523226647
A <sup>7</sup>	449871520893498955673796512358057980601
A <sup>9</sup>	50140961210336457203425931306042637258
A <sup>11</sup>	55885199981166566281474758551174906
A <sup>13</sup>	622875090853087996054678542524170
A <sup>15</sup>	69423278244686273206932411040015
A <sup>17</sup>	773765339634663702769538043087
A <sup>19</sup>	862409289733840169304051313
A <sup>21</sup>	96120845031697984164326922
A <sup>23</sup>	1071326220576675209956379
A <sup>25</sup>	11940592808116055269888
A <sup>27</sup>	133085286134768173340
A <sup>29</sup>	1483317760701213229
A <sup>31</sup>	16532493133640692
A <sup>33</sup>	184264853057964
A <sup>35</sup>	2053745663041
A <sup>37</sup>	22890264630
A <sup>39</sup>	255126145
A <sup>41</sup>	2843339
A <sup>43</sup>	31093
A <sup>45</sup>	333

Sum of the affirmative part . . . . .

*Those powers divided by their Indices.*

1/A	(.32491969622906326155871412215134464959034731
3/A <sup>3</sup>	(.7242861629885359728390272005494074451904652
5/A <sup>5</sup>	(.44847871641543405408481245871061572380294
7/A <sup>7</sup>	(.340055016071922273595228082492952529277
9/A <sup>9</sup>	(.2949468300490379855495643018002508074
11/A <sup>11</sup>	(.266119999991031602991178464692913091
13/A <sup>13</sup>	(.24915003634123591982187141700967
15/A <sup>15</sup>	(.239506146368492179549393484138
17/A <sup>17</sup>	(.23447434534583748568773880094
19/A <sup>19</sup>	(.2330835918199516802514608473
21/A <sup>21</sup>	(.2344410854431658150345437
23/A <sup>23</sup>	(.23807249346148319532361
25/A <sup>25</sup>	(.243685567512381740202
27/A <sup>27</sup>	(.25110423134018267422
29/A <sup>29</sup>	(.26023118608793215
31/A <sup>31</sup>	(.271024477600667
33/A <sup>33</sup>	(.2834843893199
35/A <sup>35</sup>	(.29764429890
37/A <sup>37</sup>	(.313565269
39/A <sup>39</sup>	(.3313327
41/A <sup>41</sup>	(.35105
43/A <sup>43</sup>	(.373
45/A <sup>45</sup>	(.4

Sum of the affirmative part . . . . . + .325648920861938107721772104060030266929064274

affirmative, the remainder is one tenth part of the length of the temiperiphery or Arc ct. 80 deg. when the radius is 1.

The square root of  $y = 3\sqrt{1}$  . . . . . 2.23606, 79774, 99789, 69640, 91736, 68731, 27623, 54406, 18357, 37545, 7747  
 $2\sqrt{1} = 3\sqrt{1} = 1.815$  . . . . . 0.89442, 71908, 99915, 81836, 56694, 67492, 51049, 41762, 47342, 95018, 311  
 $A^1 = 1 - 2\sqrt{1}$  . . . . . 0.10557, 28090, 00084, 12143, 63305, 83507, 48950, 58237, 52657, 04981, 7  
 $A^{-1} = 1 + 2\sqrt{1}$  . . . . . 9.47213, 59549, 99519, 39281, 89473, 37462, 55247, 08812, 36714, 75991, 511  
 $A^{-1} = \sqrt{1+2\sqrt{1}} = \text{Tang. of } 72 \text{ deg.}$  . . . . . 3.07768, 35317, 52335, 40235, 70290, 57603, 60984, 40067, 02143

The negative powers of the Tangents of 18 deg.

$A^1 = 0.543026850307619771976847092228869651084665152$	$A^{17} = 0.11482236727214486925892872078057382731894875$
$A^7 = 58232462373296235688533301069166814302115645$	$A^{13} = 32564850286193810712157210406030260929064274$
$A^{11} = 42612442081856559640002103845745444222565$	$A^9 = 31415926535891932384626433837950288497169399$
$A^{15} = 474942001498067184275509478011027110689$	
$A^{19} = 593522120939477551449967009879851179$	
$A^{23} = 589957543543185527950211512637975$	
$A^{27} = 657586729975432936208934059772424$	
$A^{31} = 7329210494285959172078010125545$	
$A^{35} = 81688580412135571123474061065$	
$A^{39} = 910469712249689161386214812$	
$A^{43} = 10147747613458136051410882$	
$A^{47} = 113102918461723329630582$	
$A^{51} = 1260601923878544613659$	
$A^{55} = 14050187493827423949$	
$A^{59} = 156598022656941669$	
$A^{63} = 174381739893051$	
$A^{67} = 19453338137317$	
$A^{71} = 216819698619$	
$A^{75} = 2416589555$	
$A^{79} = 26934384$	
$A^{83} = 300200$	
$A^{87} = 3346$	

Sum of the negative part . . . . . +

Sum of the affirmative part . . . . . +

The Arch of 18 deg. =  $\frac{1}{16}$  of the Semiperiphery =

The powers divided by their Indices

$3) A^3 = 0.11482236727214486925892872078057382731894875$	$3) A^3 = 0.11482236727214486925892872078057382731894875$
$7) A^7 = 546178033904231955504757372738116428875378$	$7) A^7 = 546178033904231955504757372738116428875378$
$11) A^{11} = 397385837107786905872746398597685855688$	$11) A^{11} = 397385837107786905872746398597685855688$
$15) A^{15} = 31662800099911456185367298534068474446$	$15) A^{15} = 31662800099911456185367298534068474446$
$19) A^{19} = 278606427417867239565787737362097430$	$19) A^{19} = 278606427417867239565787737362097430$
$23) A^{23} = 2565198931975296316500091962016503$	$23) A^{23} = 2565198931975296316500091962016503$
$27) A^{27} = 2435506407316418282253113324905$	$27) A^{27} = 2435506407316418282253113324905$
$31) A^{31} = 23642614497696424903742262114$	$31) A^{31} = 23642614497696424903742262114$
$35) A^{35} = 2333959440346730603527830316$	$35) A^{35} = 2333959440346730603527830316$
$39) A^{39} = 23345577237171516958620893$	$39) A^{39} = 23345577237171516958620893$
$43) A^{43} = 23599413054553804707230$	$43) A^{43} = 23599413054553804707230$
$47) A^{47} = 240645073653687864480$	$47) A^{47} = 240645073653687864480$
$51) A^{51} = 24717684781932247327$	$51) A^{51} = 24717684781932247327$
$55) A^{55} = 25545795443225890$	$55) A^{55} = 25545795443225890$
$59) A^{59} = 265420377397486$	$59) A^{59} = 265420377397486$
$63) A^{63} = 2704472061794$	$63) A^{63} = 2704472061794$
$67) A^{67} = 290348628915$	$67) A^{67} = 290348628915$
$71) A^{71} = 3053798572$	$71) A^{71} = 3053798572$
$75) A^{75} = 32221194$	$75) A^{75} = 32221194$
$79) A^{79} = 340942$	$79) A^{79} = 340942$
$83) A^{83} = 3617$	$83) A^{83} = 3617$
$87) A^{87} = 38$	$87) A^{87} = 38$

*The Quadrature of the Circle from Tang. of  $22\frac{1}{2}$  deg.  $= \sqrt{2} - 1 = A$ .*

Here  $A^2 = 1 - 2A$ ,  $A^3 = A - 2A^2 = 5A - 2$ , and  $A^4 = 5A^2 - 2A^3 = 5A^2 + 4A - 2 = 6A^2 - A$ ; therefore  $A^7 = 6A^5 - A^3$ , and  $A^9 = 6A^7 - A^5$ , &c; so that multiplying any odd power by 6, and subtracting from that product the odd power next less, the remainder shall be the odd power next greater; then divide every odd power by it's Index, and subtract the sum of the negative quotients from the sum of the affirmative, the remainder will be  $\frac{1}{8}$  of the Semiperiphery, when the radius is 1.

*The affirm. powers of the Tang. of  $22\frac{1}{2}$  deg.*

$A =$	.4142135623730950488017
$A^5 =$	.121933088197564152490
$A^9 =$	.3589374986230696634
$A^{13} =$	.105661334279533064
$A^{17} =$	.3110379273427542
$A^{21} =$	.91561017003375
$A^{25} =$	.2695304687217
$A^{29} =$	.79342362008
$A^{33} =$	.2335621075
$A^{37} =$	.68754265
$A^{41} =$	.2023937
$A^{45} =$	.59579
$A^{49} =$	.1754

*These powers divided by their Indices.*

1) $A$	(.4142135623730950488017
5) $A^5$	(.24386617639512830498
9) $A^9$	(.398819442914521848
13) $A^{13}$	(.8127794944579466
17) $A^{17}$	(.182963486672208
21) $A^{21}$	(.43600484287132
25) $A^{25}$	(.107812187489
29) $A^{29}$	(.2735943518
33) $A^{33}$	(.70776396
37) $A^{37}$	(.1858223
41) $A^{41}$	(.49364
45) $A^{45}$	(.1324
49) $A^{49}$	(.36

Sum of the affirmative part  $+$  .4166,9293,7604,2478,3371,19

*The negative powers of the Tang. of  $22\frac{1}{2}$  deg.*

$A^3 =$	.0710678118654752440084
$A^7 =$	.20920410530632474854
$A^{11} =$	.615839386751704950
$A^{15} =$	.18128618925493434
$A^{19} =$	.533656715071820
$A^{23} =$	.15709386948432
$A^{27} =$	.462441174871
$A^{31} =$	.13612997179
$A^{35} =$	.400729223
$A^{39} =$	.11796367
$A^{43} =$	.347253
$A^{47} =$	.10222
$A^{51} =$	.301

*These powers divided by their Indices.*

3) $A^3$	(.02368927,0621,8250,8133,61
7) $A^7$	(.2,9886,5007,5804,6392,65
11) $A^{11}$	(.559,8539,8795,6095,41
15) $A^{15}$	(.12,0857,4595,0328,96
19) $A^{19}$	(.2808,7195,5300,96
23) $A^{23}$	(.68,3016,8238,45
27) $A^{27}$	(.1,7127,4509,21
31) $A^{31}$	(.439,1289,51
35) $A^{35}$	(.11,4494,06
39) $A^{39}$	(.3024,71
43) $A^{43}$	(.80,75
47) $A^{47}$	(.2,17
51) $A^{51}$	(.6

Sum of the negative part  $-$  .0239,9385,5905,5236,7890,41

Sum of the affirmative part  $+$  .4166,9293,7604,2478,3371,19

The Length of the arch of  $22\frac{1}{2}$  degrees . . . . .3926,9908,1698,7241,5480,78  
Which multiplied by 8 is the Semiperiphery  $=$  3,1415,9265,3589,7932,3846,24

*Note,* Though these powers are not so easily rais'd, as those of  $\sqrt{12}$ , yet they converge much faster, so that not many above half the number are required.

†

Let

*The Quadrature of the Circle from the Tangent of*  
 $15 \text{ deg.} = 2 - \sqrt{3} = A.$

Here  $A^2 = 4A - 1$ ,  $A^3 = 4A^2 - A = 15A - 4$ ,  $A^4 = 15A^3 - 4A^2 = 15A^3 - 16A + 4 = 14A^3 - A$ ,  $A^5 = 14A^4 - A^3$ , &c; hence it is that multiplying any odd power by 14, and subtracting from the product the odd power next less, the remainder shall be the odd power next greater; then divide each power by it's Index, and subtract the sum of the negative quotients from the sum of the affirmative, the remainder will be  $\frac{1}{15}$  of the semiperiphery, when the radius is 1.

*The affirmative powers of the Tangent*  
*of 15 deg.*

A	.267949192431122706472553658
A <sup>2</sup>	.1381218104645652763714625
A <sup>3</sup>	.7119870133929688083644
A <sup>4</sup>	.36701336706724512389
A <sup>5</sup>	.189187174867319875
A <sup>6</sup>	.975217535543331
A <sup>7</sup>	.5027028086313
A <sup>8</sup>	.25913204444
A <sup>9</sup>	.133576768
A <sup>10</sup>	.688558
A <sup>11</sup>	.3549

*Those powers divided by their Indices.*

1)A	(.267949192431122706472553658
5)A <sup>5</sup>	(.276243620929130552742925
9)A <sup>9</sup>	(.791096681547743120405
13)A <sup>13</sup>	(.2823179746671116338
17)A <sup>17</sup>	(.11128657345136463
21)A <sup>21</sup>	(.46438930263968
25)A <sup>25</sup>	(.201081123452
29)A <sup>29</sup>	(.893558774
33)A <sup>33</sup>	(.4047781
37)A <sup>37</sup>	(.18610
41)A <sup>41</sup>	(.86

Sum of the affirmative part . . . . . + .2682,2622,9983,0884,2969,3682,460

*The negative powers of the Tangent*  
*of 15 deg.*

A <sup>3</sup>	.0192378864668405970883c4877
A <sup>7</sup>	.99166998198541603699876
A <sup>11</sup>	.511183676474029471145
A <sup>15</sup>	.2635037420113702305
A <sup>19</sup>	.13583028028775943
A <sup>23</sup>	.70017468830689
A <sup>27</sup>	.360924377845
A <sup>31</sup>	.1860484372
A <sup>35</sup>	.9590380
A <sup>39</sup>	.49435
A <sup>43</sup>	.255

*Those powers divided by their Indices.*

3)A <sup>3</sup>	(.0064,1262,8822,2801,9902,9434,959
7)A <sup>7</sup>	(.1416,6714,0283,6308,6242,839
11)A <sup>11</sup>	(.4,6471,2433,1582,0861,013
15)A <sup>15</sup>	(.175,6691,6134,0913,487
19)A <sup>19</sup>	(.7148,9621,2040,839
23)A <sup>23</sup>	(.30,4423,7775,247
27)A <sup>27</sup>	(.1336,7569,550
31)A <sup>31</sup>	(.6,0015,625
35)A <sup>35</sup>	(.274,011
39)A <sup>39</sup>	(.1,268
43)A <sup>43</sup>	(.6

Sum of the negative part . . . . . - .0064,2684,2183,9389,0315,5128,844

Length of the Arc of 15 deg. . . . . 2617,9938,7799,1494,3653,8553,616

Which multiply'd by 12, is the  $\frac{1}{2}$  periphery 31415,9265,3589,7932,3846,2643,392

Though no other Method of obtaining the Quadrature of the Circle is scarcely to be expected, equal in facility to that of Dr. Halley's by  $\sqrt{12}$ ; yet the three preceding, and perhaps many others, are to be preferr'd for their degree of Convergency; and at least they may serve to confirm one another as far as they are carried.

Mr.

Mr. Machin (Professor of Astronomy at *Gresham College*, and *Secr. R. S.*) from the Square-root of 12, or  $2\sqrt{3}$  3.46410, 16151, 37754, 58705, 48926, 83011, 74473, 38856, 10507, 62076, 12561, 11613, 95890, 38660, 33817, 6007, 41622, 92373, 51449, 71513, 48, computed the proportion of the Diameter of a Circle to it's Circumference to be as 1 to 3.14159, 26535, 89793, 23846, 26433, 83279, 50288, 41971, 69399, 37510, 58209, 74944, 59230, 78164, 06286, 20899, 86280, 34825, 34211, 70680, true to 100 decimal places, as published in Mr. *Jones's Synopsis*.

*A Supplement to TABLE II, in page 40, omitted there thro' want of room.*

Num.	Briggs's Logarithms to 61 places.	1st Difference for 30 places.	2d Difference.	3d Difference.
999980	5.99999, 131403, 33501, 38044, 68061, 45990, 62443, 60284, 95225, 17917, 22940, 341108	4343, 02, 950, 81082, 88314, 31665	434, 31098, 55641, 34154	86, 86371, 72279
1000016	6.00000, 60486, 56121, 35129, 52434, 19648, 62374, 49595, 84370, 51711, 55607, 732043	4342, 87316, 16257, 13352, 36643	434, 27071, 62676, 90031	86, 85433, 64483
1000017	6.00000, 73829, 43437, 51386, 65786, 56291, 14775, 78225, 10302, 21784, 48551, 912580	4342, 86881, 88285, 10676, 27612	434, 27884, 77248, 44548	86, 85407, 58604
1000018	6.00000, 78172, 30319, 39072, 10462, 33902, 87089, 41655, 39508, 98355, 56814, 619163	4342, 86447, 60400, 73433, 83064	434, 27797, 91834, 85644	
1000019	6.00000, 82515, 16767, 00072, 89896, 66966, 98540, 85749, 23898, 99832, 41238, 539887	4342, 86013, 32602, 81598, 97420		
1000020	6.00000, 86858, 02780, 32675, 71495, 64387, 39890, 12427, 23571, 38144, 61666, 611150			

*Note*, The Logarithms of the Numbers in Table II, and those in the above Supplement, were computed to a sufficient number of places lower, not only to secure the last figure nearest the truth in each; but also that the truth of the whole might be confirmed by the subtraction of the several differences, evenly decreasing to the eleventh difference throughout, which could not be perform'd by the twenty Logarithms publish'd by Mr. *Sharp*, though they are true two places lower, and that, within less than an unit in the lowest place,

*William Gardiner.*



The		
D	1	2
434	43	87
433	43	87
431	43	86
430	43	86
429	43	86
427	43	85
426	43	85
425	42	85
423	42	85
422	42	84
421	42	84
419	42	84
418	42	84
417	42	83
415	41	83
414	41	83
413	41	83
411	41	82
410	41	82
409	41	82
407	41	81
406	41	81
405	40	81
403	40	81
402	40	80
399	40	80
398	40	80
396	40	79
395	39	79
394	39	79
392	39	78
391	39	78
389	39	78
388	39	78
387	39	77
385	38	77
384	38	77
382	38	76
381	38	76
380	38	76
378	38	75
377	38	75
375	37	75
374	37	75
372	37	74
371	37	74
369	37	74
368	37	74
367	37	73
365	36	73
363	36	73
362	36	72
361	36	72
359	36	72
358	35	72
356	35	71
355	35	71
353	35	71
352	35	70
D	1	2

**A  
T A B L E**

**O F T H E**

**Logarithms**

*of all Numbers*

*from 1 to 101000.*

Num. 1 to 100, and their Log. with Indices. N. 100 L. 00

N.	Log.	N.	Log.	N.	Log.
1	0.0000000	51	1.7075700	100	0.0000000
2	0.3010300	52	1.7160033	101	43214
3	0.4771213	53	1.7242750	102	86002
4	0.6020600	54	1.7323933	103	0128372
5	0.6989700	55	1.7403627	104	70333
6	0.7781513	56	1.7481880	105	0211893
7	0.8450980	57	1.7558745	106	53059
8	0.9030900	58	1.7634280	107	93838
9	0.9542425	59	1.7708520	108	0334438
10	1.0000000	60	1.7781513	109	74265
11	1.0413927	61	1.7853298	110	0413927
12	1.0791812	62	1.7923917	111	53230
13	1.1139434	63	1.7993405	112	92180
14	1.1461280	64	1.8061800	113	0530784
15	1.1760913	65	1.8129134	114	69049
16	1.2041200	66	1.8195439	115	0606978
17	1.2304489	67	1.8260748	116	44580
18	1.2552725	68	1.8325089	117	81859
19	1.2787536	69	1.8388491	118	0718820
20	1.3010300	70	1.8450980	119	55470
21	1.3222193	71	1.8512583	120	91812
22	1.3424227	72	1.8573323	121	0827854
23	1.3617278	73	1.8633225	122	63598
24	1.3802112	74	1.8692317	123	99051
25	1.3979400	75	1.8750613	124	0934217
26	1.4149733	76	1.8808136	125	69100
27	1.4313638	77	1.8864907	126	1003705
28	1.4471580	78	1.8920946	127	38037
29	1.4623980	79	1.8976271	128	72100
30	1.4771213	80	1.9030900	129	1105897
31	1.4913617	81	1.9084850	130	39434
32	1.5051500	82	1.9138139	131	72713
33	1.5185139	83	1.9190781	132	1205739
34	1.5314789	84	1.9242793	133	38516
35	1.5440680	85	1.9294180	134	71048
36	1.5563025	86	1.9344985	135	1303338
37	1.5682017	87	1.9395193	136	35389
38	1.5797836	88	1.9444829	137	67206
39	1.5910646	89	1.9493900	138	98791
40	1.6020600	90	1.9542425	139	1430148
41	1.6127839	91	1.9590414	140	61280
42	1.6232493	92	1.9637878	141	92191
43	1.6334685	93	1.9684829	142	1522883
44	1.6434527	94	1.9731279	143	53360
45	1.6532125	95	1.9777236	144	83625
46	1.6627578	96	1.9822712	145	1613680
47	1.6720979	97	1.9867717	146	43529
48	1.6812412	98	1.9912261	147	73173
49	1.6901961	99	1.9956352	148	1702617
50	1.6989700	100	2.0000000	149	31863
N.	Log.	N.	Log.	N.	Log.
150	1760913	200	3010300	N.	Log.
151	89769	201	31961		
152	1818436	202	53514		
153	46914	203	74960		
154	75207	204	96302		
155	1903317	205	3117539		
156	31246	206	38672		
157	58997	207	59703		
158	86571	208	80633		
159	2013971	209	3201463		
160	41200	210	22193		
161	68259	211	42825		
162	95150	212	63359		
163	2121876	213	83796		
164	48438	214	3304138		
165	74839	215	24385		
166	2201081	216	44538		
167	27165	217	64597		
168	53093	218	84565		
169	78867	219	3404441		
170	2304489	220	24227		
171	29961	221	43923		
172	55284	222	63530		
173	80461	223	83049		
174	2405492	224	3502430		
175	30380	225	21825		
176	55127	226	41084		
177	79733	227	60259		
178	2504200	228	79348		
179	28530	229	98355		
180	52725	230	3617278		
181	76786	231	36120		
182	2600714	232	54880		
183	24511	233	73559		
184	48178	234	92159		
185	71717	235	3710679		
186	95129	236	29120		
187	2718418	237	47483		
188	41578	238	65770		
189	64618	239	83979		
190	87536	240	3802112		
191	2810334	241	20170		
192	33012	242	38154		
193	55573	243	56063		
194	78017	244	73808		
195	2900346	245	91661		
196	22561	246	3909351		
197	44662	247	26970		
198	66652	248	44517		
199	88531	249	61003		

N. 250 L.39

N.	Log.	N.	Log.	N.	Log.	N.	Log.	N.	Log.
250	3979400	300	4771213	350	5440680	400	6020600	450	6532125
251	96737	301	85665	351	53071	401	31444	451	41765
252	4014005	302	1800069	352	65427	402	42261	452	51384
253	31205	303	14426	353	77747	403	53050	453	60982
254	48337	304	28736	354	90033	404	63814	454	70559
255	65402	305	42998	355	5502284	405	74550	455	80114
256	82400	306	57214	356	14500	406	85260	456	89648
257	99331	307	71384	357	26682	407	95944	457	99162
258	4116197	308	85507	358	38830	408	6106602	458	6608655
259	32998	309	99585	359	50944	409	17233	459	18127
260	49733	310	4913617	360	63025	410	27839	460	27578
261	66405	311	27604	361	75072	411	38418	461	37009
262	83013	312	41546	362	87086	412	48972	462	46420
263	99557	313	55443	363	99066	413	59501	463	55810
264	4216039	314	69296	364	5611014	414	70003	464	65180
265	32459	315	83106	365	22929	415	80481	465	74530
266	48816	316	96871	366	34811	416	90933	466	83859
267	65113	317	5010593	367	46661	417	6201361	467	93169
268	81348	318	24271	368	58478	418	11763	468	6702459
269	97523	319	37907	369	70264	419	22140	469	11728
270	4313638	320	51500	370	82017	420	32493	470	20979
271	29693	321	65050	371	93739	421	42821	471	30209
272	45689	322	78559	372	5705429	422	53125	472	39420
273	61626	323	92025	373	17088	423	63404	473	48611
274	77506	324	5105450	374	28716	424	73659	474	57783
275	93327	325	18834	375	40313	425	83889	475	66936
276	4409091	326	32176	376	51878	426	94096	476	76070
277	24798	327	45478	377	63414	427	6304279	477	85184
278	40448	328	58738	378	74918	428	14438	478	94279
279	56042	329	71959	379	86392	429	24573	479	5803355
280	71580	330	85139	380	97836	430	34685	480	12412
281	87063	331	98280	381	5809250	431	44773	481	21451
282	4502491	332	5211381	382	20634	432	54837	482	30470
283	17864	333	24442	383	31988	433	64879	483	39471
284	33183	334	37465	384	43312	434	74897	484	48454
285	48449	335	50448	385	54607	435	84893	485	57417
286	63660	336	63393	386	65873	436	94865	486	66363
287	78819	337	76299	387	77110	437	6404814	487	75290
288	93925	338	89167	388	88317	438	14741	488	84193
289	4608978	339	5301997	389	99496	439	24645	489	93089
290	23980	340	14789	390	5910646	440	34527	490	5901961
291	38930	341	27544	391	21768	441	44386	491	10815
292	53829	342	40261	392	32861	442	54223	492	19651
293	68676	343	52941	393	43926	443	64037	493	28466
294	83473	344	65584	394	54962	444	73830	494	37266
295	98220	345	78191	395	65971	445	83600	495	46055
296	4712917	346	90761	396	76952	446	93349	496	54811
297	27564	347	5403295	397	87905	447	5503075	497	6356
298	42163	348	15792	398	98831	448	12780	498	7229
299	56712	349	28254	399	5009729	449	22463	499	8100
N.	Log.	N.	Log.	N.	Log.	N.	Log.	N.	Log.

N.	Log.	N.	Log.	N.	Log.	N.	Log.	N.	Log.
500	6989700	550	7403627	600	7781513	650	8129134	700	8450980
501	98377	551	11516	601	88745	651	35810	701	57180
502	7007037	552	19391	602	95965	652	42476	702	63371
503	15680	553	27251	603	7803173	653	49132	703	69553
504	24305	554	35098	604	10369	654	55777	704	75727
505	32914	555	42930	605	17554	655	62413	705	81891
506	41505	556	50748	606	24726	656	69038	706	88047
507	50080	557	58552	607	31887	657	75654	707	94194
508	58637	558	66342	608	39036	658	82259	708	8500333
509	67178	559	74118	609	46173	659	88854	709	06462
510	75702	560	81880	610	53298	660	95439	710	12583
511	84209	561	89629	611	60412	661	8202015	711	18696
512	92700	562	97363	612	67514	662	08580	712	24800
513	7101174	563	7505084	613	74605	663	15135	713	30895
514	09631	564	12791	614	81684	664	21681	714	36982
515	18072	565	20484	615	88751	665	28216	715	43060
516	26497	566	28164	616	95807	666	34742	716	49130
517	34905	567	35831	617	7902852	667	41258	717	55192
518	43298	568	43483	618	09885	668	47765	718	61244
519	51674	569	51123	619	16906	669	54261	719	67289
520	60033	570	58749	620	23917	670	60748	720	73325
521	68377	571	66361	621	30916	671	67225	721	79353
522	76705	572	73960	622	37904	672	73693	722	85372
523	85017	573	81546	623	44880	673	80151	723	91383
524	93313	574	89119	624	51846	674	86599	724	97386
525	7201593	575	96678	625	58800	675	93038	725	3603380
526	09857	576	7604225	626	65743	676	99467	726	09366
527	18106	577	11758	627	72675	677	8305887	727	15344
528	26339	578	19278	628	79596	678	12297	728	21314
529	34557	579	26786	629	86506	679	18698	729	27275
530	42759	580	34280	630	93405	680	25089	730	33229
531	50945	581	41761	631	8000294	681	31471	731	39174
532	59116	582	49230	632	07171	682	37844	732	45111
533	67272	583	56686	633	14037	683	44207	733	51040
534	75413	584	64128	634	20893	684	50561	734	56961
535	83538	585	71559	635	27737	685	56906	735	62873
536	91648	586	78976	636	34571	686	63241	736	68778
537	99743	587	86381	637	41394	687	69567	737	74675
538	7307823	588	93773	638	48207	688	75884	738	80564
539	15888	589	7701153	639	55009	689	82192	739	86444
540	23938	590	08520	640	61800	690	88491	740	92317
541	31973	591	15875	641	68580	691	94780	741	98182
542	39993	592	23217	642	75350	692	3401061	742	8704039
543	47998	593	30547	643	82110	693	07332	743	09888
544	55989	594	37864	644	88859	694	13595	744	15729
545	63965	595	45170	645	95597	695	19848	745	21563
546	71926	596	52463	646	8102325	696	26092	746	27388
547	79873	597	59743	647	09043	697	32328	747	33206
548	87806	598	67012	648	15750	698	38554	748	39016
549	95723	599	74268	649	22447	699	44772	749	44818
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752	62178	802	41744	852	3304396	902	52065	952	86365		
753	67950	803	47155	853	09490	903	56878	953	90925		
754	73713	804	52560	854	14579	904	61684	954	95482		
755	79470	805	57955	855	19661	905	66486	955	100093		
756	85218	806	63350	856	24738	906	71282	956	04575		
757	90959	807	68735	857	29808	907	76073	957	09119		
758	96692	808	74114	858	34873	908	80858	958	13655		
759	8802418	809	79485	859	39932	909	85639	959	18186		
760	08136	810	84850	860	44985	910	90414	960	22712		
761	13847	811	90209	861	50032	911	95184	961	27234		
762	19550	812	95560	862	55073	912	99948	962	31751		
763	25245	813	9100905	863	60108	913	3604708	963	36263		
764	30934	814	06244	864	65137	914	09462	964	40770		
765	36614	815	11576	865	70161	915	14211	965	45273		
766	42288	816	16002	866	75179	916	18955	966	49771		
767	47954	817	22221	867	80191	917	23693	967	54265		
768	53612	818	27533	868	85197	918	28427	968	58754		
769	59263	819	32839	869	90198	919	33159	969	63238		
770	64907	820	38139	870	95193	920	37878	970	67717		
771	70544	821	43432	871	3400182	921	42596	971	72192		
772	76173	822	48718	872	05165	922	47309	972	76663		
773	81795	823	53998	873	10142	923	52017	973	81128		
774	87410	824	59272	874	15114	924	56720	974	85590		
775	93017	825	64535	875	20081	925	61417	975	90046		
776	98617	826	69800	876	25041	926	66110	976	94498		
777	3904210	827	75055	877	29996	927	70797	977	98946		
778	09796	828	80303	878	34945	928	75480	978	9903389		
779	15375	829	85545	879	39889	929	80157	979	07827		
780	20946	830	90781	880	44827	930	84829	980	12261		
781	26510	831	96010	881	49759	931	89497	981	16650		
782	32068	832	3201233	882	54686	932	94159	982	21115		
783	37618	833	06450	883	59607	933	98816	983	25535		
784	43161	834	11661	884	64523	934	9703469	984	29951		
785	48697	835	16865	885	69433	935	08116	985	34362		
786	54225	836	22063	886	74337	936	12758	986	38765		
787	59747	837	27255	887	79236	937	17396	987	43172		
788	65262	838	32440	888	84130	938	22028	988	47565		
789	70770	839	37620	889	89018	939	26656	989	51963		
790	76271	840	42793	890	93900	940	31279	990	56352		
791	81765	841	47900	891	98777	941	35896	991	60737		
792	87252	842	53121	892	3503649	942	40509	992	65117		
793	92732	843	58276	893	08515	943	45117	993	69492		
794	98205	844	63424	894	13375	944	49720	994	73864		
795	3003671	845	68567	895	18230	945	54318	995	78231		
796	09131	846	73704	896	23080	946	58911	996	82593		
797	14583	847	78834	897	27924	947	63500	997	86952		
798	20025	848	83959	898	32763	948	68083	998	91305		
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N. 10000 L. 000

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02	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576	433	2-86
03	0013009	3442	3875	4308	4741	5174	5607	6039	6472	6905		3-130
04	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228	432	4-173
05	0021661	2093	2525	2957	3389	3821	4253	4685	5116	5548		5-216
06	5980	6411	6843	7275	7706	8138	8569	9001	9432	9863	431	6-259
07	0030295	2726	3157	3588	4019	4451	4882	5313	5744	6174		7-302
08	4605	5036	5467	5898	6328	6759	7190	7620	8051	8481	430	8-346
09	8912	9342	9772	0203	0633	1063	1493	1924	2354	2784		9-389
1010	0043214	3644	4074	4504	4933	5363	5793	6223	6652	7082	429	428
11	7512	7941	8371	8800	9229	9659	0088	0517	0947	1376		1-43
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13	6094	6523	6952	7380	7809	8238	8666	9094	9523	9951		3-128
14	0060380	0808	1236	1664	2092	2521	2949	3377	3805	4233	427	4-171
15	4660	5088	5516	5944	6372	6799	7227	7655	8082	8510		5-214
16	8937	9365	9792	0219	0647	1074	1501	1928	2355	2782	426	6-257
17	0073210	3637	4064	4490	4917	5344	5771	6198	6624	7051		7-300
18	7478	7904	8331	8757	9184	9610	0037	0463	0889	1316	425	8-342
19	0081742	2168	2594	3020	3446	3872	4298	4724	5150	5576		9-385
1020	6002	6427	6853	7279	7704	8130	8556	8981	9407	9832	424	424
21	0090257	0683	1108	1533	1959	2384	2809	3234	3659	4084	423	1-42
22	4509	4934	5359	5784	6208	6633	7058	7483	7907	8332		2-85
23	8756	9181	9605	0030	0454	0878	1303	1727	2151	2575	422	3-127
24	0103000	3424	3848	4272	4696	5120	5544	5967	6391	6815		4-170
25	7239	7662	8086	8510	8933	9357	9780	0204	0627	1050	421	5-212
26	0111474	1897	2320	2743	3166	3590	4013	4436	4859	5282		6-254
27	5704	6127	6550	6973	7396	7818	8241	8664	9086	9509	420	7-297
28	9931	0354	0776	1198	1621	2043	2465	2887	3310	3732		8-339
29	0124154	4576	4998	5420	5842	6264	6685	7107	7529	7951	419	9-382
1030	8372	8794	9215	9637	0059	0480	0901	1323	1744	2165	418	420
31	0132587	3008	3429	3850	4271	4692	5113	5534	5955	6376		1-42
32	6797	7218	7639	8059	8480	8901	9321	9742	0162	0583	417	2-84
33	0141003	1424	1844	2264	2685	3105	3525	3945	4365	4785		3-126
34	5205	5625	6045	6465	6885	7305	7725	8144	8564	8984	416	4-168
35	9403	9823	0243	0662	1082	1501	1920	2340	2759	3178	415	5-210
36	0153598	4017	4436	4855	5274	5693	6112	6531	6950	7369		6-252
37	7788	8206	8625	9044	9462	9881	0300	0718	1137	1555	414	7-294
38	0161974	2392	2810	3229	3647	4065	4483	4901	5319	5737		8-336
39	6155	6573	6991	7409	7827	8245	8663	9080	9498	9916	413	9-378
1040	0170333	0750	1168	1586	2003	2421	2838	3256	3673	4090	412	416
41	4507	4924	5342	5759	6176	6593	7010	7427	7844	8260		1-42
42	8677	9094	9511	9927	0344	0761	1177	1594	2010	2427	411	2-83
43	0182843	3259	3676	4092	4508	4925	5341	5757	6173	6589		3-125
44	7005	7421	7837	8253	8669	9084	9500	9916	0332	0747	410	4-166
45	0191163	1578	1994	2410	2825	3240	3656	4071	4486	4902	409	5-208
46	5317	5732	6147	6562	6977	7392	7807	8222	8637	9052		6-250
47	9467	9882	0296	0711	1126	1540	1955	2369	2784	3198	408	7-291
48	0203613	4027	4442	4856	5270	5684	6099	6513	6927	7341	407	8-333
49	7755	8169	8583	8997	9411	9824	0238	0652	1066	1479	406	9-374
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52	0220157	0570	0983	1396	1808	2221	2634	3046	3459	3871		2-82
53	4284	4696	5109	5521	5933	6345	6758	7170	7582	7994	412	3-124
54	8406	8818	9230	9642	0054	0466	0878	1289	1701	2113		4-165
55	0232525	2936	3348	3759	4171	4582	4994	5405	5817	6228	411	5-206
56	6639	7050	7462	7873	8284	8695	9106	9517	9928	0339		6-247
57	0240750	1161	1572	1982	2393	2804	3214	3625	4036	4446		7-288
58	4857	5267	5678	6088	6498	6909	7319	7729	8139	8549	410	8-330
59	8960	9370	9780	0190	0600	1010	1419	1829	2239	2649		9-371
1060	0253059	3468	3878	4288	4697	5107	5516	5926	6335	6744		408
61	7154	7563	7972	8382	8791	9200	9609	0018	0427	0836	409	1-41
62	0261245	1654	2063	2472	2881	3289	3698	4107	4515	4924		2-82
63	5333	5741	6150	6558	6967	7375	7783	8192	8600	9008	408	3-122
64	9416	9824	0233	0641	1049	1457	1865	2273	2680	3088		4-163
65	0273496	3904	4312	4719	5127	5535	5942	6350	6757	7165		5-204
66	7572	7979	8387	8794	9201	9609	0016	0423	0830	1237	407	6-245
67	0281644	2051	2458	2865	3272	3679	4086	4492	4899	5306		7-286
68	5713	6119	6526	6932	7339	7745	8152	8558	8964	9371	406	8-326
69	9777	0183	0590	0996	1402	1808	2214	2620	3026	3432		9-367
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71	7895	8300	8706	9111	9516	9922	0327	0732	1138	1543	405	1-40
72	0301948	2353	2758	3163	3568	3973	4378	4783	5188	5592		2-81
73	5997	6402	6807	7211	7616	8020	8425	8830	9234	9638		3-121
74	0310043	0447	0851	1256	1660	2064	2468	2872	3277	3681	404	4-162
75	4085	4489	4893	5296	5700	6104	6508	6912	7315	7719		5-202
76	8123	8526	8930	9333	9737	0140	0544	0947	1350	1754	403	6-242
77	0322157	2560	2963	3367	3770	4173	4576	4979	5382	5785		7-283
78	6188	6590	6993	7396	7799	8201	8604	9007	9409	9812		8-323
79	0330214	0617	1019	1422	1824	2226	2629	3031	3433	3835	402	9-364
1080	4238	4640	5042	5444	5846	6248	6650	7052	7453	7855		401
81	8257	8659	9060	9462	9864	0265	0667	1068	1470	1871		1-40
82	0342273	2674	3075	3477	3878	4279	4680	5081	5482	5884	401	2-80
83	6285	6686	7087	7487	7888	8289	8690	9091	9491	9892		3-120
84	0350293	0693	1094	1495	1895	2296	2696	3096	3497	3897	400	4-160
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87	0362295	2695	3094	3494	3893	4293	4692	5091	5491	5890	399	7-281
88	6289	6688	7087	7486	7885	8284	8683	9082	9481	9880		8-321
89	0370279	0678	1076	1475	1874	2272	2671	3070	3468	3867		9-361
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91	8248	8646	9044	9442	9839	0237	0635	1033	1431	1829		1-40
92	0382226	2624	3022	3419	3817	4214	4612	5009	5407	5804		2-79
93	6202	6599	6996	7393	7791	8188	8585	8982	9379	9776	397	3-119
94	0390173	0570	0967	1364	1761	2158	2554	2951	3348	3745		4-159
95	4141	4538	4934	5331	5727	6124	6520	6917	7313	7709	396	5-198
96	8106	8502	8898	9294	9690	0086	0482	0878	1274	1670		6-238
97	0402066	2462	2858	3254	3650	4045	4441	4837	5232	5628		7-278
98	6023	6419	6814	7210	7605	8001	8396	8791	9187	9582	395	8-318
99	9977	0372	0767	1162	1557	1952	2347	2742	3137	3532		9-357
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02	0421816	2210	2604	2998	3392	3786	4180	4574	4968	5361		2-79
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05	0433623	4016	4409	4802	5195	5587	5980	6373	6766	7159		5-196
06	7551	7944	8337	8729	9122	9514	9907	0299	0692	1084	393	6-236
07	0441476	1869	2261	2653	3045	3437	3829	4222	4614	5006		7-275
08	5398	5790	6181	6573	6965	7357	7749	8140	8532	8924		8-314
09	9315	9707	0099	0490	0882	1273	1664	2056	2447	2839	392	9-354
1110	0453230	3621	4012	4403	4795	5186	5577	5968	6359	6750		390
11	7141	7531	7922	8313	8704	9095	9485	9876	0267	0657	391	1-39
12	0461048	1438	1829	2219	2610	3000	3391	3781	4171	4561		2-78
13	4952	5342	5732	6122	6512	6902	7292	7682	8072	8462		3-117
14	8852	9242	9632	0021	0411	0801	1190	1580	1970	2359	390	4-156
15	0472749	3138	3528	3917	4306	4696	5085	5474	5864	6253		5-195
16	6642	7031	7420	7809	8198	8587	8976	9365	9754	0143		6-234
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18	4418	4806	5195	5583	5972	6360	6748	7136	7525	7913		8-312
19	8301	8689	9077	9465	9853	0241	0629	1017	1405	1792		9-351
1120	0492180	2568	2956	3343	3731	4119	4506	4894	5281	5669	388	386
21	6056	6444	6831	7218	7606	7993	8380	8767	9154	9541		1-39
22	9929	0316	0703	1090	1477	1863	2250	2637	3024	3411		2-77
23	0503798	4184	4571	4958	5344	5731	6117	6504	6890	7277	387	3-116
24	7663	8049	8436	8822	9208	9595	9981	0367	0753	1139		4-154
25	0511525	1911	2297	2683	3069	3455	3841	4227	4612	4998	386	5-193
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27	9239	9624	0010	0395	0780	1166	1551	1936	2321	2706		7-270
28	0523091	3476	3861	4246	4631	5016	5400	5785	6170	6555	385	8-309
29	6939	7324	7709	8093	8478	8862	9247	9631	0016	0400		9-347
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31	4626	5010	5394	5778	6162	6546	6929	7313	7697	8081	384	1-38
32	8464	8848	9232	9615	9999	0382	0766	1149	1532	1916		2-77
33	0542299	2682	3066	3449	3832	4215	4598	4981	5365	5748		3-115
34	6131	6514	6896	7279	7662	8045	8428	8811	9193	9576	383	4-153
35	9959	0341	0724	1106	1489	1871	2254	2636	3019	3401		5-191
36	0553783	4166	4548	4930	5312	5694	6077	6459	6841	7223	382	6-230
37	7605	7987	8369	8750	9132	9514	9896	0278	0659	1041		7-268
38	0561423	1804	2186	2567	2949	3330	3712	4093	4475	4856		8-306
39	5237	5619	6000	6381	6762	7143	7524	7905	8287	8668	381	9-345
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41	0572863	3237	3618	3998	4379	4759	5140	5520	5900	6281		1-3
42	6661	7041	7422	7802	8182	8562	8942	9322	9702	0082	380	2-7
43	0580462	0842	1222	1602	1982	2362	2741	3121	3501	3881		3-11
44	4260	4640	5019	5399	5778	6158	6537	6917	7296	7676	379	4-15
45	8055	8434	8813	9193	9572	9951	0330	0709	1088	1467		5-18
46	0591846	2225	2604	2983	3362	3741	4119	4498	4877	5256		6-227
47	5634	6013	6391	6770	7148	7527	7905	8284	8662	9041	378	7-265
48	9419	9797	0175	0554	0932	1310	1688	2066	2444	2822		8-303
49	0623200	3578	3956	4334	4712	5090	5468	5845	6223	6601		9-341
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53	8293	8670	9046	9423	9799	0176	0552	0929	1305	1682	3	113
54	0622058	2434	2811	3187	3563	3939	4316	4692	5068	5444	376	4-150
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56	9578	9954	0330	0705	1081	1456	1832	2207	2583	2958	6	226
57	0633334	3709	4084	4460	4835	5210	5585	5960	6335	6711	375	7-263
58	7086	7461	7836	8211	8585	8960	9335	9710	0085	0460	8	301
59	0640834	1209	1584	1958	2333	2708	3082	3457	3831	4205	9	338
1160	4580	4954	5329	5703	6077	6451	6826	7200	7574	7948	374	373
61	8322	8696	9070	9444	9818	0192	0566	0940	1314	1688	1	37
62	0652061	2435	2809	3182	3556	3930	4303	4677	5050	5424	2	75
63	5797	6171	6544	6917	7291	7664	8037	8410	8784	9157	3	112
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66	6986	7358	7730	8103	8475	8847	9220	9592	9964	0336	6	224
67	0670709	1081	1453	1825	2197	2569	2941	3313	3685	4057	372	7-261
68	4428	4800	5172	5544	5915	6287	6659	7030	7402	7774	8	298
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1170	0681859	2230	2601	2972	3343	3714	4085	4456	4827	5198	371	370
71	5569	5940	6311	6681	7052	7423	7794	8164	8535	8906	1	37
72	9276	9647	0017	0388	0758	1129	1499	1869	2240	2610	2	74
73	0692980	3350	3721	4091	4461	4831	5201	5571	5941	6311	370	3-111
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76	4073	4442	4812	5181	5550	5919	6288	6658	7027	7396	369	6-222
77	7765	8134	8503	8871	9240	9609	9978	0347	0715	1084	7	259
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79	5138	5506	5875	6243	6611	6979	7348	7716	8084	8452	9	333
1180	8820	9188	9556	9924	0292	0660	1028	1396	1763	2131	368	366
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82	6175	6542	6910	7277	7644	8011	8379	8746	9113	9480	2	73
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86	0740847	1213	1579	1945	2311	2677	3043	3409	3775	4141	366	6-220
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91	9118	9482	9847	0211	0576	0940	1305	1669	2034	2398	1	36
92	0762763	3127	3491	3855	4220	4584	4948	5312	5676	6040	2	73
93	6404	6768	7132	7496	7860	8224	8588	8952	9316	9680	3	109
94	0770043	0407	0771	1134	1498	1862	2225	2589	2952	3316	4	146
95	3679	4042	4406	4769	5133	5496	5859	6222	6585	6949	5	182
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98	4568	4931	5293	5656	6018	6380	6743	7105	7467	7830	8	291
99	8192	8554	8916	9278	9640	0003	0365	0727	1089	1451	362	9-328

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02	9045	9406	9767	0128	0490	0851	1212	1573	1934	2295		2-73
03	0802656	3017	3378	3739	4100	4461	4822	5183	5543	5904		3-105
04	6265	6626	6986	7347	7707	8068	8429	8789	9150	9510	361	4-145
05	9870	0231	0591	0952	1312	1672	2032	2393	2753	3113		5-181
06	0813473	3833	4193	4553	4913	5273	5633	5993	6353	6713		6-218
07	7073	7432	7792	8152	8512	8871	9231	9591	9950	0310	360	7-254
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09	4263	4622	4981	5341	5700	6059	6418	6777	7136	7495		9-327
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11	0831441	1800	2159	2517	2876	3234	3593	3951	4309	4668		1-36
12	5026	5385	5743	6101	6459	6817	7176	7534	7892	8250		2-71
13	8608	8966	9324	9682	0040	0398	0756	1114	1471	1829		3-108
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15	5763	6120	6478	6835	7192	7550	7907	8264	8621	8979		5-180
16	9336	9693	0050	0407	0764	1121	1478	1835	2192	2549		6-216
17	0852906	3263	3619	3976	4333	4690	5046	5403	5760	6116	357	7-251
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31	0902581	2933	3286	3639	3991	4344	4697	5049	5402	5755		1-35
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34	0913152	3504	3855	4207	4559	4911	5263	5614	5966	6318	352	4-141
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39	0930713	1064	1414	1764	2115	2465	2816	3166	3516	3867		9-315
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42	0941216	1566	1915	2265	2614	2964	3313	3663	4012	4362		2-70
43	4711	5061	5410	5759	6109	6458	6807	7156	7506	7855		3-105
44	8204	8553	8902	9251	9600	9949	0298	0647	0996	1345	349	4-140
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47	8665	9013	9361	9709	0057	0406	0754	1102	1450	1798	348	7-246
48	0962146	2494	2842	3190	3538	3885	4233	4581	4929	5277		8-281
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56	9896	0242	0588	0934	1279	1625	1971	2316	2662	3007		6-208
57	0993353	3698	4044	4389	4735	5080	5425	5771	6116	6461		7-242
58	6806	7152	7497	7842	8187	8532	8877	9222	9567	9912	345	8-277
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61	7151	7495	7840	8184	8528	8873	9217	9561	9905	0249	344	1-34
62	1010594	0938	1282	1626	1970	2314	2658	3002	3346	3690		2-69
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64	7471	7814	8158	8501	8845	9188	9532	9875	0219	0562		4-137
65	1020905	1249	1592	1935	2278	2621	2965	3308	3651	3994	343	5-171
66	4337	4680	5023	5366	5709	6052	6395	6738	7081	7423		6-206
67	7766	8109	8452	8794	9137	9480	9822	0165	0507	0850		7-240
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71	1041456	1797	2139	2480	2822	3164	3505	3847	4188	4530		1-34
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74	1051694	2035	2376	2717	3058	3398	3739	4080	4421	4761		4-136
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78	5309	5648	5988	6328	6668	7007	7347	7687	8026	8366		8-272
79	8705	9045	9385	9724	0063	0403	0742	1082	1421	1760		9-306
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91	9262	9599	9935	0272	0608	0944	1280	1617	1953	2289	336	1-33
92	1112625	2961	3297	3633	3969	4306	4642	4977	5313	5649		2-67
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95	1122698	3033	3368	3704	4039	4374	4709	5045	5380	5715	335	5-167
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98	1132747	3081	3416	3751	4085	4420	4754	5088	5423	5757		8-267
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06	9432	9764	0097	0429	0762	1094	1427	1759	2091	2424		6-200
07	1162756	3088	3420	3753	4085	4417	4749	5081	5413	5745		7-233
08	6077	6409	6741	7073	7405	7737	8069	8401	8733	9065	332	8-266
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17	5858	6187	6517	6847	7177	7506	7836	8165	8495	8825		7-231
18	9154	9484	9813	0143	0472	0801	1131	1460	1789	2119		8-264
19	1202448	2777	3106	3436	3765	4094	4423	4752	5081	5410	329	9-297
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21	9028	9357	9686	0014	0343	0672	1000	1329	1657	1986		1-33
22	1212315	2643	2972	3300	3628	3957	4285	4614	4942	5270		2-66
23	5598	5927	6255	6583	6911	7239	7568	7896	8224	8552	328	3-98
24	8880	9208	9536	9864	0192	0520	0848	1175	1503	1831		4-131
25	1222159	2487	2814	3142	3470	3797	4125	4453	4780	5108		5-164
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31	1241781	2107	2433	2759	3086	3412	3738	4064	4390	4716		1-32
32	5042	5368	5694	6020	6346	6672	6998	7324	7650	7976		2-65
33	8301	8627	8953	9279	9605	9930	0256	0582	0907	1233		3-97
34	1251558	1884	2209	2535	2860	3186	3511	3837	4162	4487		4-130
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36	8065	8390	8715	9040	9365	9690	0015	0339	0664	0989		6-195
37	1261314	1639	1964	2288	2613	2938	3263	3587	3912	4237		7-227
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39	7806	8130	8454	8779	9103	9427	9751	0076	0400	0724	324	9-292
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41	4288	4612	4935	5259	5583	5907	6230	6554	6878	7202		1-32
42	7525	7849	8172	8496	8819	9143	9466	9790	0113	0437		2-65
43	1280760	1083	1407	1730	2053	2377	2700	3023	3346	3670	323	3-97
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45	7223	7546	7869	8191	8514	8837	9160	9483	9805	0128		5-161
46	1290451	0773	1096	1418	1741	2064	2386	2709	3031	3354	322	6-194
47	3676	3998	4321	4643	4965	5288	5610	5932	6255	6577		7-226
48	6899	7221	7543	7865	8187	8510	8832	9154	9476	9798		8-258
49	1300119	0441	0763	1085	1407	1729	2051	2372	2694	3016		9-291
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52	9767	0088	0409	0730	1052	1373	1694	2015	2336	2657	321	2-64
53	1312978	3299	3620	3941	4262	4583	4903	5224	5545	5866		3-96
54	6187	6507	6828	7149	7469	7790	8111	8431	8752	9072		4-128
55	9393	9713	0034	0354	0675	0995	1316	1636	1956	2277		5-160
56	1322597	2917	3237	3558	3878	4198	4518	4838	5158	5478	320	6-193
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59	1332195	2514	2834	3153	3473	3792	4112	4431	4750	5070		9-289
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61	8581	8900	9219	9538	9857	0176	0495	0814	1133	1452		1-32
62	1341771	2090	2409	2728	3046	3365	3684	4003	4321	4640		2-64
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67	7685	8003	8320	8638	8956	9273	9591	9908	0226	0543		7-223
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71	1370375	0691	1008	1325	1641	1958	2275	2591	2908	3225		1-32
72	3541	3858	4174	4491	4807	5124	5440	5756	6073	6389		2-63
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78	1392492	2807	3122	3438	3753	4068	4383	4698	5013	5328		8-253
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81	1401937	2251	2566	2880	3195	3509	3823	4138	4452	4766	314	1-31
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83	8222	8536	8850	9164	9478	9792	0106	0419	0733	1047		3-94
84	1411361	1675	1988	2302	2616	2930	3243	3557	3871	4184		4-126
85	4498	4811	5125	5438	5752	6065	6379	6692	7006	7319		5-157
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93	9511	9823	0135	0446	0758	1070	1381	1693	2005	2316		3-93
94	1442628	2939	3251	3562	3874	4185	4497	4808	5119	5431		4-124
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98	5072	5382	5693	6004	6314	6625	6935	7246	7556	7867		8-249
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11	5270	5578	5886	6193	6501	6809	7116	7424	7732	8039		1-31
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13	1501422	1729	2036	2344	2651	2958	3265	3573	3880	4187		3-92
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16	1510633	0939	1246	1553	1859	2166	2472	2779	3085	3392		6-184
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21	5941	6246	6552	6858	7163	7469	7774	8080	8385	8691		1-30
22	8996	9301	9607	9912	0217	0523	0828	1133	1439	1744		2-61
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26	1541195	1500	1804	2109	2413	2718	3022	3327	3631	3935		6-183
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28	7282	7586	7890	8194	8498	8802	9106	9410	9714	0018		8-244
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38	7589	7891	8193	8495	8797	9099	9401	9702	0004	0306		8-242
39	1580608	0910	1212	1513	1815	2117	2418	2720	3022	3323		9-273
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41	6640	6941	7243	7544	7845	8146	8448	8749	9050	9351	301	1-30
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57	4596	4894	5192	5490	5788	6086	6384	6682	6979	7277	7-209	
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59	1640553	0851	1148	1446	1743	2041	2339	2636	2934	3231	9-268	
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61	6502	6799	7097	7394	7691	7988	8285	8582	8880	9177	297	1-30
62	9474	9771	0068	0365	0662	0959	1256	1553	1850	2146	2-59	
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67	4301	4597	4893	5189	5485	5781	6077	6373	6669	6965	7-207	
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03	9590	9879	0168	0457	0745	1034	1323	1612	1901	2190		3-87
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19	5578	5864	6150	6435	6721	7007	7293	7579	7864	8150		9-258
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46	1892095	2376	2657	2938	3218	3499	3780	4061	4342	4622		6-169
47	4903	5184	5465	5745	6026	6307	6587	6868	7148	7429		7-197
48	7710	7990	8271	8551	8832	9112	9393	9673	9953	0234		8-225
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53	1911715	1994	2274	2553	2833	3113	3392	3672	3951	4231		3-84
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58	5675	5953	6232	6511	6789	7068	7347	7625	7904	8183		8-223
59	8461	8740	9018	9297	9575	9854	0132	0411	0689	0968		9-251
1560	1931246	1524	1803	2081	2359	2638	2916	3194	3473	3751		278
61	4029	4307	4585	4864	5142	5420	5698	5976	6254	6532		1-28
62	6810	7088	7366	7644	7922	8200	8478	8756	9034	9312		2-56
63	9590	9868	0145	0423	0701	0979	1257	1534	1812	2090		3-83
64	1942367	2645	2923	3200	3478	3756	4033	4311	4588	4866		4-111
65	5143	5421	5698	5976	6253	6531	6808	7086	7363	7640		5-139
66	7918	8195	8472	8749	9027	9304	9581	9858	0136	0413		6-167
67	1950690	0967	1244	1521	1798	2075	2353	2630	2907	3184	277	7-195
68	3461	3738	4014	4291	4568	4845	5122	5399	5676	5953		8-222
69	6229	6506	6783	7060	7336	7613	7890	8167	8443	8720		9-250
1570	8997	9273	9550	9826	0103	0379	0656	0932	1209	1485		276
71	1961702	2038	2315	2591	2867	3144	3420	3697	3973	4249		1-28
72	4525	4802	5078	5354	5630	5907	6183	6459	6735	7011	276	2-55
73	7287	7563	7839	8115	8391	8667	8943	9219	9495	9771		3-83
74	1970047	0323	0599	0875	1151	1427	1702	1978	2254	2530		4-110
75	2806	3081	3357	3633	3908	4184	4460	4735	5011	5287		5-138
76	5562	5838	6113	6389	6664	6940	7215	7491	7766	8042		6-166
77	8317	8592	8868	9143	9418	9694	9969	0244	0520	0795		7-193
78	1981070	1345	1620	1896	2171	2446	2721	2996	3271	3546	275	8-221
79	3821	4096	4371	4646	4921	5196	5471	5746	6021	6296		9-248
1580	6571	6846	7121	7395	7670	7945	8220	8495	8769	9044		274
81	9319	9593	9868	0143	0417	0692	0967	1241	1516	1790		1-27
82	1992065	2339	2614	2888	3163	3437	3712	3986	4260	4535		2-55
83	4809	5083	5358	5632	5906	6181	6455	6729	7003	7278		3-82
84	7552	7826	8100	8374	8648	8922	9197	9471	9745	0019	274	4-110
85	2000293	0567	0841	1115	1389	1662	1936	2210	2484	2758		5-137
86	3032	3306	3579	3853	4127	4401	4674	4948	5222	5496		6-164
87	5769	6043	6317	6590	6864	7137	7411	7684	7958	8231		7-192
88	8505	8778	9052	9325	9599	9872	0146	0419	0692	0966		8-219
89	2011239	1512	1786	2059	2332	2605	2879	3152	3425	3698	273	9-247
1590	3971	4244	4517	4791	5064	5337	5610	5883	6156	6429		272
91	6702	6975	7248	7521	7794	8066	8339	8612	8885	9158		1-27
92	9431	9703	9976	0249	0522	0794	1067	1340	1612	1885		2-54
93	2022158	2430	2703	2976	3248	3521	3793	4066	4338	4611		3-82
94	4883	5156	5428	5700	5973	6245	6518	6790	7062	7335	272	4-109
95	7607	7879	8151	8424	8696	8968	9240	9512	9785	0057		5-136
96	2030329	0601	0873	1145	1417	1689	1961	2233	2505	2777		6-163
97	3040	3321	3593	3865	4137	4409	4681	4952	5224	5496		7-190
98	5768	6040	6311	6583	6855	7126	7398	7670	7941	8213		8-218
99	8485	8756	9028	9299	9571	9842	0114	0385	0657	0928		9-245
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02	6625	6896	7167	7438	7709	7980	8251	8522	8793	9064		2-54
03	9335	9606	9877	0148	0419	0690	0960	1231	1502	1773		3-81
04	2052044	2314	2585	2856	3127	3397	3668	3939	4209	4480		4-108
05	4750	5021	5292	5562	5833	6103	6374	6644	6915	7185		5-135
06	7455	7726	7996	8267	8537	8807	9078	9348	9618	9889		6-163
07	2060159	0429	0699	0969	1240	1510	1780	2050	2320	2590	270	7-190
08	2860	3131	3401	3671	3941	4211	4481	4751	5021	5291		8-217
09	5560	5830	6100	6370	6640	6910	7180	7449	7719	7989		9-244
1610	8259	8529	8798	9068	9338	9607	9877	0147	0416	0686		269
11	2070955	1225	1495	1764	2034	2303	2573	2842	3112	3381		1-27
12	3650	3920	4189	4459	4728	4997	5267	5536	5805	6074	269	2-54
13	6344	6613	6882	7151	7421	7690	7959	8228	8497	8766		3-81
14	9035	9304	9573	9842	0111	0380	0649	0918	1187	1456		4-108
15	2081725	1994	2263	2532	2801	3070	3338	3607	3876	4145		5-134
16	4414	4682	4951	5220	5488	5757	6026	6294	6563	6832		6-161
17	7100	7369	7637	7906	8174	8443	8711	8980	9248	9517		7-188
18	9785	0054	0322	0590	0859	1127	1395	1664	1932	2200	268	8-215
19	2092468	2737	3005	3273	3541	3810	4078	4346	4614	4882		9-242
1620	5150	5418	5686	5954	6222	6490	6758	7026	7294	7562		267
21	7830	8098	8366	8634	8902	9170	9437	9705	9973	0241		1-27
22	2100508	0776	1044	1312	1579	1847	2115	2382	2650	2918		2-53
23	3185	3453	3720	3988	4255	4523	4790	5058	5325	5593		3-80
24	5860	6128	6395	6662	6930	7197	7464	7732	7999	8266	267	4-107
25	8534	8801	9068	9335	9603	9870	0137	0404	0671	0938		5-133
26	2111205	1472	1740	2007	2274	2541	2808	3075	3342	3609		6-160
27	3876	4142	4409	4676	4943	5210	5477	5744	6010	6277		7-187
28	6544	6811	7078	7344	7611	7878	8144	8411	8678	8944		8-214
29	9211	9477	9744	0011	0277	0544	0810	1077	1343	1610		9-240
1630	2121876	2142	2409	2675	2942	3208	3474	3741	4007	4273	266	266
31	4540	4806	5072	5338	5605	5871	6137	6403	6669	6935		1-27
32	7202	7468	7734	8000	8266	8532	8798	9064	9330	9596		2-53
33	9862	0128	0394	0660	0926	1191	1457	1723	1989	2255		3-80
34	2132521	2786	3052	3318	3584	3849	4115	4381	4646	4912		4-106
35	5178	5443	5709	5974	6240	6505	6771	7037	7302	7568		5-133
36	7833	8098	8364	8629	8895	9160	9425	9691	9956	0221		6-160
37	2140487	0752	1017	1283	1548	1813	2078	2343	2609	2874	265	7-186
38	3139	3404	3669	3934	4199	4464	4730	4995	5260	5525		8-213
39	5790	6055	6319	6584	6849	7114	7379	7644	7909	8174		9-235
1640	8438	8703	8968	9233	9498	9762	0027	0292	0556	0821		264
41	2151086	1350	1615	1880	2144	2409	2673	2938	3203	3467		1-26
42	3732	3996	4260	4525	4789	5054	5318	5583	5847	6111		2-53
43	6376	6640	6904	7169	7433	7697	7961	8226	8490	8754		3-75
44	9018	9282	9546	9811	0075	0339	0603	0867	1131	1395	264	4-106
45	2161659	1923	2187	2451	2715	2979	3243	3507	3771	4034		5-131
46	4298	4562	4826	5090	5354	5617	5881	6145	6409	6672		6-158
47	6936	7200	7463	7727	7991	8254	8518	8781	9045	9309		7-185
48	9572	9836	0099	0363	0626	0890	1153	1416	1680	1943		8-211
49	2172207	2470	2733	2997	3260	3523	3786	4050	4313	4576		9-238
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N. 16500 L.217

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51	7471	7734	7997	8260	8523	8786	9049	9312	9575	9838		1-26
52	2180100	0363	0626	0889	1152	1415	1677	1940	2203	2466		2-52
53	2729	2991	3254	3517	3779	4042	4305	4567	4830	5092		3-79
54	5355	5618	5880	6143	6405	6668	6930	7193	7455	7718		4-105
55	7980	8242	8505	8767	9030	9292	9554	9816	0079	0341		5-131
56	2190603	0866	1128	1390	1652	1914	2177	2439	2701	2963	262	6-157
57	3225	3487	3749	4011	4273	4535	4797	5059	5321	5583		7-183
58	5845	6107	6369	6631	6893	7155	7417	7678	7940	8202		8-210
59	8464	8726	8987	9249	9511	9773	0034	0296	0558	0819		9-236
1660	2201081	1342	1604	1866	2127	2389	2650	2912	3173	3435		261
61	3696	3958	4219	4481	4742	5003	5265	5526	5788	6049		1-26
62	6310	6571	6833	7094	7355	7617	7878	8139	8400	8661		2-52
63	8922	9184	9445	9706	9967	0228	0489	0750	1011	1272	261	3-78
64	2211533	1794	2055	2316	2577	2838	3099	3360	3621	3882		4-104
65	4142	4403	4664	4925	5186	5446	5707	5968	6229	6489		5-130
66	6750	7011	7271	7532	7793	8053	8314	8574	8835	9095		6-157
67	9356	9617	9877	0138	0398	0658	0919	1179	1440	1700		7-183
68	2221960	2221	2481	2741	3002	3262	3522	3783	4043	4303		8-209
69	4563	4824	5084	5344	5604	5864	6124	6384	6645	6905	260	9-235
1670	7165	7425	7685	7945	8205	8465	8725	8985	9245	9505		259
71	9764	0024	0284	0544	0804	1064	1324	1583	1843	2103		2-26
72	2232363	2622	2882	3142	3402	3661	3921	4181	4440	4700		2-52
73	4959	5219	5479	5738	5998	6257	6517	6776	7036	7295		3-78
74	7555	7814	8073	8333	8592	8852	9111	9370	9630	9889		4-104
75	2240148	0407	0667	0926	1185	1444	1704	1963	2222	2481	259	5-129
76	2740	2999	3258	3517	3777	4036	4295	4554	4813	5072		6-155
77	5331	5590	5849	6107	6366	6625	6884	7143	7402	7661		7-181
78	7920	8178	8437	8696	8955	9213	9472	9731	9990	0248		8-207
79	2250507	0766	1024	1283	1541	1800	2059	2317	2576	2834		9-233
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81	5677	5935	6194	6452	6710	6969	7227	7485	7743	8002		1-26
82	8260	8518	8776	9034	9293	9551	9809	0067	0325	0583	258	2-52
83	2260841	1099	1357	1615	1873	2131	2389	2647	2905	3163		3-77
84	3421	3679	3937	4194	4452	4710	4968	5226	5484	5741		4-103
85	5999	6257	6515	6772	7030	7288	7545	7803	8060	8318		5-125
86	8576	8833	9091	9348	9606	9863	0121	0378	0636	0893		6-155
87	2271151	1408	1666	1923	2180	2438	2695	2953	3210	3467		7-181
88	3724	3982	4239	4496	4753	5011	5268	5525	5782	6039	257	8-206
89	6296	6554	6811	7068	7325	7582	7839	8096	8353	8610		9-235
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91	2281436	1693	1950	2206	2463	2720	2977	3233	3490	3747		1-26
92	4004	4260	4517	4774	5030	5287	5543	5800	6057	6313		2-51
93	6670	6826	7083	7339	7596	7852	8108	8365	8621	8878		3-77
94	9134	9390	9647	9903	0159	0416	0672	0928	1185	1441		4-103
95	2291697	1953	2209	2466	2722	2978	3234	3490	3746	4002	256	5-128
96	4258	4515	4771	5027	5283	5539	5795	6051	6307	6562		6-15
97	6818	7074	7330	7586	7842	8098	8354	8609	8865	9121		7-171
98	9377	9633	9888	0144	0400	0656	0911	1167	1423	1678		8-20
99	2301934	2189	2445	2701	2956	3212	3467	3723	3978	4234		9-234
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02	9596	9851	0106	0361	0616	0871	1126	1381	1636	1891		2-51
03	2312146	2461	2656	2911	3166	3421	3676	3931	4186	4441		3-76
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05	7244	7499	7753	8008	8263	8517	8772	9026	9281	9536		5-127
06	9790	0045	0299	0554	0808	1063	1317	1572	1826	2081		6-153
07	2322335	2590	2844	3098	3353	3607	3861	4116	4370	4624		7-178
08	4879	5133	5387	5641	5896	6150	6404	6658	6912	7166	254	8-204
09	7421	7675	7929	8183	8437	8691	8945	9199	9453	9707		9-229
1710	9961	0215	0469	0723	0977	1231	1485	1739	1992	2246		253
11	2332500	2754	3008	3262	3515	3769	4023	4277	4530	4784		1-25
12	5038	5291	5545	5799	6052	6306	6559	6813	7067	7320		2-51
13	7574	7827	8081	8334	8588	8841	9095	9348	9601	9855		3-76
14	2340108	0362	0615	0868	1122	1375	1628	1881	2135	2388		4-101
15	2641	2894	3148	3401	3654	3907	4160	4414	4667	4920	253	5-126
16	5173	5426	5679	5932	6185	6438	6691	6944	7197	7450		6-152
17	7703	7956	8209	8462	8715	8967	9220	9473	9726	9979		7-177
18	2350232	0484	0737	0990	1243	1495	1748	2001	2253	2506		8-202
19	2759	3011	3264	3517	3769	4022	4274	4527	4779	5032		9-228
1720	5284	5537	5789	6042	6294	6547	6799	7052	7304	7556		252
21	7809	8061	8313	8566	8818	9070	9323	9575	9827	0079		1-25
22	2360331	0584	0836	1088	1340	1592	1844	2097	2349	2601	252	2-50
23	2853	3105	3357	3609	3861	4113	4365	4617	4869	5121		3-76
24	5373	5625	5876	6128	6380	6632	6884	7136	7387	7639		4-101
25	7891	8143	8394	8646	8898	9150	9401	9653	9905	0156		5-126
26	2370408	0660	0911	1163	1414	1666	1917	2169	2420	2672		6-151
27	2923	3175	3426	3678	3929	4181	4432	4683	4935	5186		7-176
28	5437	5689	5940	6191	6443	6694	6945	7196	7448	7699		8-202
29	7950	8201	8452	8703	8955	9206	9457	9708	9959	0210	251	9-227
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31	2971	3222	3472	3723	3974	4225	4476	4727	4977	5228		1-25
32	5479	5730	5980	6231	6482	6732	6983	7234	7484	7735		2-50
33	7986	8236	8487	8737	8988	9238	9489	9739	9990	0240		3-75
34	2390491	0741	0992	1242	1493	1743	1993	2244	2494	2744		4-100
35	2995	3245	3495	3746	3996	4246	4496	4747	4997	5247		5-125
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37	7998	8248	8498	8748	8998	9248	9498	9748	9998	0248		7-175
38	2400498	0748	0997	1247	1497	1747	1997	2247	2496	2746		8-200
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41	7988	8237	8487	8736	8985	9235	9484	9734	9983	0232		1-25
42	2410482	0731	0980	1229	1479	1728	1977	2226	2476	2725		2-50
43	2974	3223	3472	3721	3970	4220	4469	4718	4967	5216	249	3-75
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45	7954	8203	8452	8701	8950	9199	9447	9696	9945	0194		5-124
46	2420442	0691	0940	1189	1437	1686	1935	2183	2432	2680		6-149
47	2929	3178	3426	3675	3923	4172	4420	4669	4917	5166		7-174
48	5414	5663	5911	6160	6408	6656	6905	7153	7401	7650		8-199
49	7898	8146	8395	8643	8891	9139	9388	9636	9884	0132		9-224
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51	2861	3109	3357	3605	3853	4101	4349	4597	4845	5093		1-25
52	5341	5589	5837	6085	6332	6580	6828	7076	7324	7571		2-49
53	7819	8067	8315	8562	8810	9058	9305	9553	9801	10048		3-74
54	2440296	0543	0791	1039	1286	1534	1781	2029	2276	2524		4-99
55	2771	3019	3266	3514	3761	4008	4256	4503	4750	4998		5-123
56	5245	5492	5740	5987	6234	6482	6729	6976	7223	7470		6-148
57	7718	7965	8212	8459	8706	8953	9200	9448	9695	9942	247	7-173
58	2450189	0436	0683	0930	1177	1424	1671	1918	2165	2411		8-198
59	2658	2905	3152	3399	3646	3893	4140	4386	4633	4880		9-222
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61	7594	7840	8087	8333	8580	8826	9073	9320	9566	9813		1-25
62	2460059	0306	0552	0798	1045	1291	1538	1784	2030	2277		2-49
63	2523	2769	3016	3262	3508	3755	4001	4247	4493	4740		3-74
64	4986	5232	5478	5724	5970	6217	6463	6709	6955	7201	246	4-98
65	7447	7693	7939	8185	8431	8677	8923	9169	9415	9661		5-123
66	9907	0153	0399	0645	0891	1136	1382	1628	1874	2120		6-148
67	2472365	2611	2857	3103	3349	3594	3840	4086	4331	4577		7-172
68	4823	5068	5314	5559	5805	6051	6296	6542	6787	7033		8-197
69	7278	7524	7769	8015	8260	8506	8751	8997	9242	9487		9-221
1770	9733	9978	0223	0469	0714	0959	1205	1450	1695	1940		245
71	2482186	2431	2676	2921	3166	3412	3657	3902	4147	4392	245	1-24
72	4637	4882	5127	5372	5617	5862	6107	6352	6597	6842		2-49
73	7087	7332	7577	7822	8067	8312	8557	8802	9047	9291		3-73
74	9536	9781	0026	0271	0515	0760	1005	1249	1494	1739		4-98
75	2491984	2228	2473	2718	2962	3207	3451	3696	3941	4185		5-122
76	4430	4674	4919	5163	5408	5652	5897	6141	6385	6630		6-147
77	6874	7119	7363	7607	7852	8096	8340	8585	8829	9073		7-171
78	9318	9562	9806	0050	0294	0539	0783	1027	1271	1515		8-196
79	2501759	2004	2248	2492	2736	2980	3224	3468	3712	3956	244	9-220
1780	4200	4444	4688	4932	5176	5420	5664	5908	6151	6395		243
81	6639	6883	7127	7371	7614	7858	8102	8346	8590	8833		1-24
82	9077	9321	9564	9808	0052	0295	0539	0783	1026	1270		2-49
83	2511513	1757	2001	2244	2488	2731	2975	3218	3462	3705		3-73
84	3949	4192	4435	4679	4922	5166	5409	5652	5896	6139		4-97
85	6382	6625	6869	7112	7355	7599	7842	8085	8328	8571		5-121
86	8815	9058	9301	9544	9787	0030	0273	0516	0759	1002	243	6-146
87	2521246	1489	1732	1975	2218	2461	2703	2946	3189	3432		7-170
88	3675	3918	4161	4404	4647	4889	5132	5375	5618	5861		8-194
89	6103	6346	6589	6832	7074	7317	7560	7802	8045	8288		9-219
1790	8530	8773	9016	9258	9501	9743	9986	0228	0471	0713		242
91	2530956	1198	1441	1683	1926	2168	2411	2653	2895	3138		1-24
92	3380	3622	3865	4107	4349	4592	4834	5076	5318	5561		2-48
93	5803	6045	6287	6529	6772	7014	7256	7498	7740	7982		3-73
94	8224	8466	8709	8951	9193	9435	9677	9919	0161	0403	242	4-97
95	2540645	0886	1128	1370	1612	1854	2096	2338	2580	2822		5-121
96	3063	3305	3547	3789	4030	4272	4514	4756	4997	5239		6-145
97	5481	5722	5964	6206	6447	6689	6931	7172	7414	7655		7-169
98	7897	8138	8380	8621	8863	9104	9346	9587	9829	0070		8-194
99	2550312	0553	0794	1036	1277	1519	1760	2001	2242	2484		9-218
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N. 18000 L.255

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02	7548	7789	8030	8271	8512	8753	8994	9235	9475	9716		2-48
03	9957	0198	0439	0680	0921	1161	1402	1643	1884	2125		3-72
04	2562365	2606	2847	3087	3328	3569	3810	4050	4291	4531		4-96
05	4772	5013	5253	5494	5734	5975	6215	6456	6696	6937		5-120
06	7177	7418	7658	7899	8139	8380	8620	8860	9101	9341		6-145
07	9582	9822	0062	0302	0543	0783	1023	1264	1504	1744		7-169
08	2571984	2224	2465	2705	2945	3185	3425	3665	3905	4146	240	8-193
09	4386	4626	4866	5106	5346	5586	5826	6066	6306	6546		9-217
1810	6786	7026	7266	7506	7745	7985	8225	8465	8705	8945		239
11	9185	9424	9664	9904	0144	0383	0623	0863	1103	1342		1-24
12	2581582	1822	2061	2301	2541	2780	3020	3259	3499	3738		2-48
13	3978	4218	4457	4697	4936	5176	5415	5655	5894	6133		3-72
14	6373	6612	6852	7091	7330	7570	7809	8048	8288	8527		4-96
15	8766	9006	9245	9484	9723	9963	0202	0441	0680	0919		5-119
16	2591158	1398	1637	1876	2115	2354	2593	2832	3071	3310	239	6-143
17	3549	3788	4027	4266	4505	4744	4983	5222	5461	5700		7-167
18	5939	6178	6417	6655	6894	7133	7372	7611	7849	8088		8-191
19	8327	8566	8804	9043	9282	9521	9759	9998	0237	0475		9-215
1820	2600714	0952	1191	1430	1668	1907	2145	2384	2622	2861		238
21	3099	3338	3576	3815	4053	4292	4530	4769	5007	5245		1-24
22	5484	5722	5960	6199	6437	6675	6914	7152	7390	7628		2-48
23	7867	8105	8343	8581	8820	9058	9296	9534	9772	0010		3-71
24	2610248	0486	0725	0963	1201	1439	1677	1915	2153	2391	238	4-95
25	2629	2867	3105	3343	3580	3818	4056	4294	4532	4770		5-119
26	5008	5246	5483	5721	5959	6197	6435	6672	6910	7148		6-143
27	7385	7623	7861	8099	8336	8574	8811	9049	9287	9524		7-167
28	9762	9999	0237	0475	0712	0950	1187	1425	1662	1900		8-190
29	2622137	2374	2612	2849	3087	3324	3562	3799	4036	4274		9-214
1830	4511	4748	4986	5223	5460	5697	5935	6172	6409	6646		237
31	6883	7121	7358	7595	7832	8069	8306	8543	8781	9018	237	1-24
32	9255	9492	9729	9966	0203	0440	0677	0914	1151	1388		2-47
33	2631625	1862	2098	2335	2572	2809	3046	3283	3520	3757		3-71
34	3993	4230	4467	4704	4940	5177	5414	5651	5887	6124		4-95
35	6361	6597	6834	7071	7307	7544	7780	8017	8254	8490		5-118
36	8727	8963	9200	9436	9673	9909	0146	0382	0619	0855		6-142
37	2641092	1328	1564	1801	2037	2273	2510	2746	2982	3219		7-166
38	3455	3691	3928	4164	4400	4636	4873	5109	5345	5581		8-190
39	5817	6053	6290	6526	6762	6998	7234	7470	7706	7942	236	9-213
1840	8178	8414	8650	8886	9122	9358	9594	9830	0066	0302		235
41	2650538	0774	1010	1246	1481	1717	1953	2189	2425	2660		1-23
42	2896	3132	3368	3604	3839	4075	4311	4546	4782	5018		2-47
43	5253	5489	5725	5960	6196	6431	6667	6903	7138	7374		3-70
44	7609	7845	8080	8316	8551	8787	9022	9257	9493	9728		4-94
45	9964	0199	0434	0670	0905	1140	1376	1611	1846	2082		5-117
46	2662317	2552	2787	3023	3258	3493	3728	3963	4199	4434		6-141
47	4669	4904	5139	5374	5609	5844	6080	6315	6550	6785	235	7-164
48	7020	7255	7490	7725	7960	8195	8429	8664	8899	9134		8-188
49	9369	9604	9839	0074	0309	0543	0778	1013	1248	1483		9-211
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51	4064	4299	4533	4768	5003	5237	5472	5706	5941	6175		1-23
52	6410	6644	6879	7113	7348	7582	7817	8051	8285	8520		2-47
53	8754	8989	9223	9457	9692	9926	0160	0394	0629	0863		3-70
54	2681097	1332	1566	1800	2034	2268	2503	2737	2971	3205		4-94
55	3439	3673	3907	4141	4376	4610	4844	5078	5312	5546	234	5-117
56	5780	6014	6248	6482	6716	6950	7183	7417	7651	7885		6-140
57	8119	8353	8587	8821	9054	9288	9522	9756	9990	0223		7-164
58	2690457	0091	0925	1158	1392	1626	1859	2093	2327	2560		8-187
59	2794	3028	3261	3495	3728	3962	4195	4429	4662	4896		9-211
1860	5129	5363	5596	5830	6063	6297	6530	6764	6997	7230		233
61	7464	7697	7930	8164	8397	8630	8864	9097	9330	9564		1-23
62	9797	0030	0263	0496	0730	0963	1196	1429	1662	1895		2-47
63	2702129	2362	2595	2828	3061	3294	3527	3760	3993	4226	233	3-70
64	4459	4692	4925	5158	5391	5624	5857	6090	6323	6555		4-93
65	6788	7021	7254	7487	7720	7953	8185	8418	8651	8884		5-116
66	9116	9349	9582	9815	0047	0280	0513	0745	0978	1211		6-140
67	2711443	1076	1908	2141	2374	2606	2839	3071	3304	3536		7-163
68	3769	4001	4234	4466	4699	4931	5163	5396	5628	5861		8-186
69	6093	6325	6558	6790	7022	7255	7487	7719	7952	8184		9-210
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71	2720738	0970	1202	1434	1666	1898	2130	2362	2594	2826	232	1-23
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73	5378	5610	5841	6073	6305	6537	6769	7001	7232	7464		3-70
74	7696	7928	8159	8391	8623	8854	9086	9318	9549	9781		4-93
75	2730013	0244	0476	0708	0939	1171	1402	1634	1865	2097		5-116
76	2328	2560	2791	3023	3254	3486	3717	3949	4180	4411		6-139
77	4643	4874	5105	5337	5568	5799	6031	6262	6493	6725		7-162
78	6956	7187	7418	7650	7881	8112	8343	8574	8806	9037		8-186
79	9268	9499	9730	9961	0192	0423	0654	0885	1116	1347	231	9-209
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81	3888	4119	4350	4581	4811	5042	5273	5504	5735	5965		1-23
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83	8503	8734	8964	9195	9426	9656	9887	0117	0348	0578		3-69
84	2750809	1039	1270	1500	1731	1961	2192	2422	2653	2883		4-92
85	3114	3344	3574	3805	4035	4265	4496	4726	4956	5187		5-115
86	5417	5647	5877	6108	6338	6568	6798	7028	7259	7489		6-138
87	7719	7949	8179	8409	8640	8870	9100	9330	9560	9790	230	7-161
88	2760020	0250	0480	0710	0940	1170	1400	1630	1860	2090		8-184
89	2320	2549	2779	3009	3239	3469	3699	3929	4158	4388		9-207
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91	6915	7145	7375	7604	7834	8063	8293	8523	8752	8982		1-23
92	9211	9441	9670	9900	0129	0359	0588	0818	1047	1277		2-46
93	2771506	1736	1965	2194	2424	2653	2882	3112	3341	3570		3-69
94	3800	4029	4258	4488	4717	4946	5175	5405	5634	5863		4-92
95	6092	6321	6550	6780	7009	7238	7467	7696	7925	8154	229	5-114
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97	2780673	0902	1131	1360	1589	1818	2047	2276	2504	2733		7-160
98	2962	3191	3420	3648	3877	4106	4335	4564	4792	5021		8-183
99	5250	5478	5707	5936	6164	6393	6622	6850	7079	7307		9-206
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01	9821	0050	0278	0506	0735	0963	1192	1420	1648	1877		1-23
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03	4388	4616	4844	5072	5301	5529	5757	5985	6213	6441		3-68
04	6669	6898	7126	7354	7582	7810	8038	8266	8494	8722	228	4-91
05	8950	9178	9406	9634	9862	0090	0317	0545	0773	1001		5-114
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07	3507	3735	3962	4190	4418	4645	4873	5101	5328	5556		7-160
08	5784	6011	6239	6467	6694	6922	7149	7377	7604	7832		8-182
09	8059	8287	8514	8742	8969	9197	9424	9651	9879	0106		9-205
1910	2810334	0561	0788	1016	1243	1470	1698	1925	2152	2380		227
11	2607	2834	3061	3289	3516	3743	3970	4197	4425	4652		1-23
12	4879	5106	5333	5560	5787	6014	6242	6469	6696	6923	227	2-45
13	7150	7377	7604	7831	8058	8285	8512	8739	8966	9192		3-68
14	9419	9646	9873	0100	0327	0554	0781	1007	1234	1461		4-91
15	2821688	1915	2141	2368	2595	2822	3048	3275	3502	3728		5-113
16	3955	4182	4408	4635	4862	5088	5315	5541	5768	5995		6-136
17	6221	6448	6674	6901	7127	7354	7580	7807	8033	8260		7-159
18	8486	8712	8939	9165	9392	9618	9844	0071	0297	0523		8-182
19	2830750	0976	1202	1429	1655	1881	2107	2334	2560	2786		9-204
1920	3012	3238	3465	3691	3917	4143	4369	4595	4821	5048	226	226
21	5274	5500	5726	5952	6178	6404	6630	6856	7082	7308		1-23
22	7534	7760	7986	8212	8438	8663	8889	9115	9341	9567		2-45
23	9793	0019	0245	0470	0696	0922	1148	1373	1599	1825		3-68
24	2842051	2276	2502	2728	2953	3179	3405	3630	3856	4082		4-90
25	4307	4533	4759	4984	5210	5435	5661	5886	6112	6337		5-113
26	6563	6788	7014	7239	7465	7690	7916	8141	8366	8592		6-136
27	8817	9043	9268	9493	9719	9944	0169	0394	0620	0845		7-158
28	2851070	1296	1521	1746	1971	2196	2422	2647	2872	3097		8-181
29	3322	3547	3773	3998	4223	4448	4673	4898	5123	5348	225	9-203
1930	5573	5798	6023	6248	6473	6698	6923	7148	7373	7598		224
31	7823	8048	8273	8497	8722	8947	9172	9397	9622	9846		1-22
32	2860071	0296	0521	0746	0970	1195	1420	1644	1869	2094		2-45
33	2319	2543	2768	2993	3217	3442	3666	3891	4116	4340		3-67
34	4565	4789	5014	5238	5463	5687	5912	6136	6361	6585		4-90
35	6810	7034	7259	7483	7707	7932	8156	8381	8605	8829		5-112
36	9054	9278	9502	9726	9951	0175	0399	0624	0848	1072		6-134
37	2871296	1520	1745	1969	2193	2417	2641	2865	3090	3314		7-157
38	3538	3762	3986	4210	4434	4658	4882	5106	5330	5554	224	8-179
39	5778	6002	6226	6450	6674	6898	7122	7346	7570	7793		9-202
1940	8017	8241	8465	8689	8913	9136	9360	9584	9808	0032		223
41	2880255	0479	0703	0927	1150	1374	1598	1821	2045	2269		1-22
42	2492	2716	2939	3163	3387	3610	3834	4057	4281	4504		2-45
43	4728	4952	5175	5399	5622	5845	6069	6292	6516	6739		3-67
44	6963	7186	7409	7633	7856	8079	8303	8526	8749	8973		4-89
45	9196	9419	9643	9866	0089	0312	0536	0759	0982	1205		5-111
46	2891428	1652	1875	2098	2321	2544	2767	2990	3213	3436	223	6-134
47	3660	3883	4106	4329	4552	4775	4998	5221	5444	5667		7-156
48	5890	6112	6335	6558	6781	7004	7227	7450	7673	7896		8-178
49	8118	8341	8564	8787	9010	9232	9455	9678	9901	0123		9-201
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51	2573	2795	3018	3240	3463	3686	3908	4131	4353	4576		1-22
52	4798	5021	5243	5466	5688	5910	6133	6355	6578	6800		2-44
53	7022	7245	7467	7690	7912	8134	8356	8579	8801	9023		3-67
54	9246	9468	9690	9912	0135	0357	0579	0801	1023	1245		4-89
55	2911468	1690	1912	2134	2356	2578	2800	3022	3244	3466	222	5-111
56	3689	3911	4133	4355	4577	4799	5020	5242	5464	5686		6-133
57	5908	6130	6352	6574	6796	7018	7240	7461	7683	7905		7-155
58	8127	8349	8570	8792	9014	9236	9458	9679	9901	0123		8-178
59	2920344	0566	0788	1009	1231	1453	1674	1896	2118	2339		9-200
1960	2561	2782	3004	3225	3447	3668	3890	4111	4333	4554		221
61	4776	4997	5219	5440	5662	5883	6105	6326	6547	6769		1-22
62	6990	7211	7433	7654	7875	8097	8318	8539	8760	8982		2-44
63	9203	9424	9645	9867	0088	0309	0530	0751	0973	1194		3-66
64	2931415	1636	1857	2078	2299	2520	2741	2962	3183	3405	221	4-88
65	3626	3847	4068	4289	4510	4730	4951	5172	5393	5614		5-110
66	5835	6056	6277	6498	6719	6940	7160	7381	7602	7823		6-133
67	8044	8264	8485	8706	8927	9147	9368	9589	9810	0030		7-155
68	2940251	0472	0692	0913	1134	1354	1575	1795	2016	2237		8-177
69	2457	2678	2898	3119	3339	3560	3780	4001	4221	4442		9-199
1970	4662	4883	5103	5324	5544	5764	5985	6205	6426	6646		220
71	6866	7087	7307	7527	7748	7968	8188	8408	8629	8849		1-22
72	9069	9289	9510	9730	9950	0170	0390	0610	0831	1051		2-44
73	2951271	1491	1711	1931	2151	2371	2591	2811	3031	3251	220	3-66
74	3471	3691	3911	4131	4351	4571	4791	5011	5231	5451		4-88
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91	2990713	0931	1149	1367	1585	1803	2021	2239	2457	2675	218	1-22
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95	9429	9647	9864	0082	0300	0517	0735	0953	1170	1388		5-109
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97	3781	3998	4216	4433	4650	4868	5085	5303	5520	5737		7-153
98	5955	6172	6390	6607	6824	7042	7259	7476	7693	7911		8-174
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09	9799	0015	0232	0448	0664	0880	1096	1312	1528	1745	216	9-195
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19	3051363	1578	1793	2008	2224	2439	2654	2869	3084	3299	215	9-194
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25	4250	4465	4679	4894	5108	5322	5537	5751	5966	6180		5-107
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27	8537	8752	8966	9180	9394	9609	9823	0037	0251	0465		7-150
28	3070680	0894	1108	1322	1536	1750	1964	2178	2392	2606		8-172
29	2820	3035	3249	3463	3677	3890	4105	4319	4532	4746	214	9-193
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59	6563	6774	6985	7196	7407	7618	7829	8040	8251	8461		9-191
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61	3140780	0991	1201	1412	1623	1833	2044	2255	2465	2676		1-21
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16	5157	5362	5567	5772	5978	6183	6388	6593	6798	7003		6-124
17	7209	7414	7619	7824	8029	8234	8439	8644	8849	9055	205	7-144
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19	3261310	1515	1719	1924	2129	2334	2539	2744	2949	3154		9-185
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25	3589	3794	3998	4202	4407	4611	4815	5020	5224	5428		5-103
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29	3281757	1961	2165	2369	2572	2776	2980	3184	3388	3592		9-184
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38	3300077	0280	0483	0686	0889	1093	1296	1499	1702	1905		8-163
39	2108	2311	2514	2717	2920	3123	3326	3529	3732	3935	203	9-184
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48	3320343	0545	0747	0949	1151	1354	1556	1758	1960	2162		8-162
49	2364	2566	2768	2970	3172	3374	3577	3779	3981	4183	202	9-183
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54	2457	2659	2860	3062	3263	3465	3667	3868	4070	4271		4-81
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66	6585	6785	6986	7186	7386	7587	7787	7988	8188	8389		6-121
67	8589	8790	8990	9190	9391	9591	9791	9992	0192	0392		7-141
68	3360593	0793	0993	1194	1394	1594	1795	1995	2195	2395		8-161
69	2596	2796	2996	3196	3396	3597	3797	3997	4197	4397		9-181
2170	4597	4797	4998	5198	5398	5598	5798	5998	6198	6398	200	200
71	6598	6798	6998	7198	7398	7598	7798	7998	8198	8398		1-20
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73	3370597	0797	0997	1197	1397	1596	1796	1996	2196	2396		3-60
74	2595	2795	2995	3195	3394	3594	3794	3994	4193	4393		4-80
75	4593	4792	4992	5192	5391	5591	5791	5990	6190	6389		5-100
76	6589	6788	6988	7188	7387	7587	7786	7986	8185	8385		6-120
77	8584	8784	8983	9183	9382	9582	9781	9981	0180	0379		7-140
78	3380579	0778	0978	1177	1376	1576	1775	1974	2174	2373		8-160
79	2572	2772	2971	3170	3369	3569	3768	3967	4166	4366		9-180
2180	4565	4764	4963	5163	5362	5561	5760	5959	6158	6358	199	199
81	6557	6756	6955	7154	7353	7552	7751	7950	8149	8348		1-20
82	8547	8746	8946	9145	9344	9543	9742	9940	0139	0338		2-40
83	3390537	0736	0935	1134	1333	1532	1731	1930	2129	2327		3-60
84	2526	2725	2924	3123	3322	3520	3719	3918	4117	4316		4-80
85	4514	4713	4912	5111	5309	5508	5707	5906	6104	6303		5-99
86	6502	6700	6899	7098	7296	7495	7693	7892	8091	8289		6-119
87	8488	8686	8885	9084	9282	9481	9679	9878	0076	0275		7-139
88	3400473	0672	0870	1069	1267	1466	1664	1862	2061	2259		8-159
89	2458	2656	2854	3053	3251	3449	3648	3846	4045	4243		9-179
2190	4441	4639	4838	5036	5234	5433	5631	5829	6027	6226		198
91	6424	6622	6820	7018	7217	7415	7613	7811	8009	8207		1-20
92	8405	8604	8802	9000	9198	9396	9594	9792	9990	0188	198	2-40
93	3410386	0584	0782	0980	1178	1376	1574	1772	1970	2168		3-59
94	2366	2564	2762	2960	3158	3356	3554	3752	3950	4147		4-79
95	4345	4543	4741	4939	5137	5334	5532	5730	5928	6126		5-99
96	6323	6521	6719	6917	7114	7312	7510	7707	7905	8103		6-119
97	8301	8498	8696	8894	9091	9289	9486	9684	9882	0079		7-139
98	3420277	0474	0672	0870	1067	1265	1462	1660	1857	2055		8-158
99	2252	2450	2647	2845	3042	3240	3437	3635	3832	4029		9-178
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01	6200	6398	6595	6792	6990	7187	7384	7581	7779	7976		1-20
02	8173	8370	8568	8765	8962	9159	9356	9554	9751	9948		2-40
03	3430	145	0342	0539	0736	0933	1131	1328	1525	1722	1919	3-59
04	2116	2313	2510	2707	2904	3101	3298	3495	3692	3889	197	4-79
05	4086	4283	4480	4677	4874	5071	5268	5464	5661	5858		5-99
06	6055	6252	6449	6646	6842	7039	7236	7433	7630	7827		6-119
07	8023	8220	8417	8614	8810	9007	9204	9401	9597	9794		7-139
08	9991	0187	0384	0581	0777	0974	1171	1367	1564	1761		8-158
09	3441	1957	2154	2350	2547	2743	2940	3137	3333	3530	3726	9-178
2210	3923	4119	4316	4512	4709	4905	5102	5298	5495	5691		197
11	5887	6084	6280	6477	6673	6869	7066	7262	7459	7655		1-20
12	7851	8048	8244	8440	8636	8833	9029	9225	9422	9618		2-39
13	9814	0010	0207	0403	0599	0795	0991	1188	1384	1580		3-59
14	3451	1776	1972	2168	2365	2561	2757	2953	3149	3345	3541	4-79
15	3737	3933	4129	4325	4522	4718	4914	5110	5306	5502	196	5-98
16	5698	5894	6090	6285	6481	6677	6873	7069	7265	7461		6-118
17	7657	7853	8049	8245	8440	8636	8832	9028	9224	9420		7-138
18	9615	9811	0007	0203	0399	0594	0790	0986	1182	1377		8-158
19	3461	1573	1769	1964	2160	2356	2551	2747	2943	3138	3334	9-177
2220	3530	3725	3921	4117	4312	4508	4703	4899	5094	5290		196
21	5486	5681	5877	6072	6268	6463	6659	6854	7050	7245		1-20
22	7441	7636	7831	8027	8222	8418	8613	8808	9004	9199		2-39
23	9395	9590	9785	9981	0176	0371	0567	0762	0957	1153		3-59
24	3471	1348	1543	1738	1934	2129	2324	2519	2715	2910	3105	4-78
25	3300	3495	3691	3886	4081	4276	4471	4666	4861	5056		5-98
26	5252	5447	5642	5837	6032	6227	6422	6617	6812	7007	195	6-118
27	7202	7397	7592	7787	7982	8177	8372	8567	8762	8957		7-137
28	9152	9347	9542	9737	9931	0126	0321	0516	0711	0906		8-157
29	3481	1101	1296	1490	1685	1880	2075	2270	2464	2659	2854	9-176
2230	3049	3243	3438	3633	3828	4022	4217	4412	4606	4801		195
31	4996	5190	5385	5580	5774	5969	6164	6358	6553	6747		1-19
32	6942	7136	7331	7526	7720	7915	8109	8304	8498	8693		2-39
33	8887	9082	9276	9471	9665	9860	0054	0248	0443	0637		3-58
34	3490	832	1026	1220	1415	1609	1804	1998	2192	2387	2581	4-78
35	2775	2970	3164	3358	3552	3747	3941	4135	4330	4524		5-97
36	4718	4912	5106	5301	5495	5689	5883	6077	6272	6466		6-117
37	6660	6854	7048	7242	7436	7630	7825	8019	8213	8407		7-136
38	8601	8795	8989	9183	9377	9571	9765	9959	0153	0347	194	8-156
39	3500	541	0735	0929	1123	1317	1511	1705	1898	2092	2286	9-175
2240	2480	2674	2868	3062	3256	3449	3643	3837	4031	4225		194
41	4419	4612	4806	5000	5194	5387	5581	5775	5969	6162		1-19
42	6356	6550	6743	6937	7131	7325	7518	7712	7905	8099		2-39
43	8293	8486	8680	8874	9067	9261	9454	9648	9841	0035		3-58
44	3510	229	0422	0616	0809	1003	1196	1390	1583	1777	1970	4-78
45	2163	2357	2550	2744	2937	3131	3324	3517	3711	3904		5-97
46	4098	4291	4484	4678	4871	5064	5258	5451	5644	5837		6-116
47	6031	6224	6417	6611	6804	6997	7190	7383	7577	7770		7-136
48	7963	8156	8349	8543	8736	8929	9122	9315	9508	9701		8-155
49	9895	0088	0281	0474	0667	0860	1053	1246	1439	1632	193	9-175
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N. 22500 L.352

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51	3755	3948	4141	4334	4527	4720	4912	5105	5298	5491	1	19
52	5684	5877	6070	6262	6455	6648	6841	7034	7226	7419	2	39
53	7612	7805	7997	8190	8383	8576	8768	8961	9154	9346	3	58
54	9539	9732	9924	0117	0310	0502	0695	0888	1080	1273	4	77
55	3531465	1658	1851	2043	2236	2428	2621	2813	3006	3198	5	96
56	3391	3583	3776	3968	4161	4353	4546	4738	4931	5123	6	116
57	5316	5508	5700	5893	6085	6278	6470	6662	6855	7047	7	135
58	7239	7432	7624	7816	8009	8201	8393	8586	8778	8970	8	154
59	9162	9355	9547	9739	9931	0123	0316	0508	0700	0892	9	174
2260	3541084	1277	1469	1661	1853	2045	2237	2429	2621	2814	192	192
61	3006	3198	3390	3582	3774	3966	4158	4350	4542	4734	1	19
62	4926	5118	5310	5502	5694	5886	6078	6270	6462	6654	2	38
63	6846	7037	7229	7421	7613	7805	7997	8189	8381	8572	3	58
64	8764	8956	9148	9340	9531	9723	9915	0107	0299	0490	4	77
65	3550682	0874	1066	1257	1449	1641	1832	2024	2216	2407	5	96
66	2599	2791	2982	3174	3366	3557	3749	3940	4132	4324	6	115
67	4515	4707	4898	5090	5281	5473	5664	5856	6048	6239	7	134
68	6431	6622	6813	7005	7196	7388	7579	7771	7962	8154	8	154
69	8345	8536	8728	8919	9111	9302	9493	9685	9876	0067	9	173
2270	3560259	0450	0641	0832	1024	1215	1406	1598	1789	1980	191	191
71	2171	2363	2554	2745	2936	3127	3319	3510	3701	3892	1	19
72	4083	4274	4466	4657	4848	5039	5230	5421	5612	5803	2	38
73	5994	6185	6376	6568	6759	6950	7141	7332	7523	7714	3	57
74	7905	8096	8287	8478	8668	8859	9050	9241	9432	9623	4	76
75	9814	0005	0196	0387	0578	0768	0959	1150	1341	1532	5	95
76	3571723	1913	2104	2295	2486	2677	2867	3058	3249	3440	6	115
77	3630	3821	4012	4202	4393	4584	4775	4965	5156	5347	7	134
78	5537	5728	5918	6109	6300	6490	6681	6872	7062	7253	8	153
79	7443	7634	7824	8015	8205	8396	8586	8777	8967	9158	9	172
2280	9348	9539	9729	9920	0110	0301	0491	0682	0872	1062	190	190
81	3581253	1443	1634	1824	2014	2205	2395	2585	2776	2966	1	19
82	3156	3347	3537	3727	3918	4108	4298	4488	4679	4869	2	38
83	5059	5249	5440	5630	5820	6010	6200	6391	6581	6771	3	57
84	6961	7151	7341	7531	7722	7912	8102	8292	8482	8672	4	76
85	8862	9052	9242	9432	9622	9812	0002	0192	0382	0572	5	95
86	3590762	0952	1142	1332	1522	1712	1902	2092	2282	2472	6	114
87	2662	2852	3041	3231	3421	3611	3801	3991	4181	4370	7	133
88	4560	4750	4940	5130	5319	5509	5699	5889	6078	6268	8	152
89	6458	6648	6837	7027	7217	7406	7596	7786	7976	8165	9	171
2290	8355	8544	8734	8924	9113	9303	9493	9682	9872	0061	189	189
91	3600251	0440	0630	0820	1009	1199	1388	1578	1767	1957	1	19
92	2146	2336	2525	2715	2904	3093	3283	3472	3662	3851	2	38
93	4041	4230	4419	4609	4798	4987	5177	5366	5555	5745	3	57
94	5934	6123	6313	6502	6691	6880	7070	7259	7448	7638	4	76
95	7827	8016	8205	8395	8584	8773	8962	9151	9341	9530	5	94
96	9719	9908	0097	0286	0475	0664	0854	1043	1232	1421	6	113
97	3611610	1799	1988	2177	2366	2555	2744	2933	3122	3311	7	132
98	3500	3689	3878	4067	4256	4445	4634	4823	5012	5201	8	151
99	5390	5579	5767	5956	6145	6334	6523	6712	6901	7090	9	170
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01	9166	9355	9544	9732	9921	0110	0298	0487	0676	0864		1-19
02	3621053	1242	1430	1619	1808	1996	2185	2374	2562	2751		2-38
03	2939	3128	3316	3505	3694	3882	4071	4259	4448	4636		3-57
04	4825	5013	5202	5390	5579	5767	5956	6144	6332	6521		4-76
05	6709	6898	7086	7274	7463	7651	7840	8028	8216	8405		5-94
06	8593	8781	8970	9158	9346	9535	9723	9911	0099	0288		6-113
07	3630476	0664	0852	1041	1229	1417	1605	1793	1982	2170		7-132
08	2358	2546	2734	2922	3111	3299	3487	3675	3863	4051		8-151
09	4239	4427	4615	4804	4992	5180	5368	5556	5744	5932	188	9-170
2310	6120	6308	6496	6684	6872	7060	7248	7436	7624	7811		188
11	7999	8187	8375	8563	8751	8939	9127	9315	9503	9690		1-19
12	9878	0066	0254	0442	0630	0817	1005	1193	1381	1569		2-38
13	3641756	1944	2132	2320	2507	2695	2883	3070	3258	3446		3-56
14	3633	3821	4009	4197	4384	4572	4759	4947	5135	5322		4-75
15	5510	5698	5885	6073	6260	6448	6635	6823	7010	7198		5-94
16	7386	7573	7761	7948	8136	8323	8510	8698	8885	9073		6-113
17	9260	9448	9635	9823	0010	0197	0385	0572	0760	0947		7-132
18	3651134	1322	1509	1696	1884	2071	2258	2446	2633	2820		8-150
19	3007	3195	3382	3569	3756	3944	4131	4318	4505	4693		9-169
2320	4880	5067	5254	5441	5629	5816	6003	6190	6377	6564		187
21	6751	6938	7126	7313	7500	7687	7874	8061	8248	8435		1-19
22	8622	8809	8996	9183	9370	9557	9744	9931	0118	0305		2-37
23	3660492	0679	0866	1053	1240	1427	1614	1801	1987	2174		3-56
24	2361	2548	2735	2922	3109	3295	3482	3669	3856	4043		4-75
25	4230	4416	4603	4790	4977	5163	5350	5537	5724	5910		5-93
26	6097	6284	6470	6657	6844	7031	7217	7404	7590	7777		6-112
27	7964	8150	8337	8524	8710	8897	9083	9270	9457	9643		7-131
28	9830	0016	0203	0389	0576	0762	0949	1135	1322	1508		8-150
29	3671695	1881	2068	2254	2441	2627	2814	3000	3186	3373		9-168
2330	3559	3746	3932	4118	4305	4491	4677	4864	5050	5236		186
31	5423	5609	5795	5982	6168	6354	6540	6727	6913	7099		1-19
32	7285	7472	7658	7844	8030	8216	8403	8589	8775	8961		2-37
33	9147	9333	9520	9706	9892	0078	0264	0450	0636	0822		3-56
34	3681008	1195	1381	1567	1753	1939	2125	2311	2497	2683	186	4-74
35	2869	3055	3241	3427	3613	3799	3985	4171	4356	4542		5-93
36	4728	4914	5100	5286	5472	5658	5844	6030	6215	6401		6-112
37	6587	6773	6959	7145	7330	7516	7702	7888	8073	8259		7-130
38	8445	8631	8817	9002	9188	9374	9559	9745	9931	0116		8-149
39	3690302	0488	0674	0859	1045	1230	1416	1602	1787	1973		9-167
2340	2159	2344	2530	2715	2901	3086	3272	3458	3643	3829		185
41	4014	4200	4385	4571	4756	4942	5127	5313	5498	5683		1-18
42	5869	6054	6240	6425	6611	6796	6981	7167	7352	7537		2-37
43	7723	7908	8094	8279	8464	8650	8835	9020	9205	9391		3-55
44	9576	9761	9947	0132	0317	0502	0688	0873	1058	1243		4-74
45	3701428	1614	1799	1984	2169	2354	2539	2725	2910	3095		5-92
46	3280	3465	3650	3835	4020	4206	4391	4576	4761	4946	185	6-111
47	5131	5316	5501	5686	5871	6056	6241	6426	6611	6796		7-126
48	6981	7166	7351	7536	7721	7906	8091	8275	8460	8645		8-148
49	8830	9015	9200	9385	9570	9754	9939	0124	0309	0494		9-166
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51	2526	2711	2896	3080	3265	3450	3634	3819	4004	4188		1-18
52	4373	4558	4742	4927	5112	5296	5481	5665	5850	6035		2-37
53	6219	6404	6588	6773	6957	7142	7327	7511	7696	7880		3-55
54	8065	8249	8434	8618	8802	8987	9171	9356	9540	9725		4-74
55	9909	0093	0278	0462	0647	0831	1015	1200	1384	1568		5-92
56	3721753	1937	2121	2306	2490	2674	2859	3043	3227	3412		6-111
57	3596	3780	3964	4149	4333	4517	4701	4885	5070	5254		7-129
58	5438	5622	5806	5990	6175	6359	6543	6727	6911	7095		8-148
59	7279	7463	7648	7832	8016	8200	8384	8568	8752	8936	184	9-166
2360	9120	9304	9488	9672	9856	0040	0224	0408	0592	0776		184
61	3730960	1144	1328	1512	1696	1879	2063	2247	2431	2615		1-18
62	2799	2983	3167	3350	3534	3718	3902	4086	4270	4453		2-37
63	4637	4821	5005	5189	5372	5556	5740	5924	6107	6291		3-55
64	6475	6658	6842	7026	7209	7393	7577	7760	7944	8128		4-74
65	8311	8495	8679	8862	9046	9229	9413	9597	9780	9964		5-92
66	3740147	0331	0514	0698	0882	1065	1249	1432	1616	1799		6-110
67	1983	2166	2349	2533	2716	2900	3083	3267	3450	3634		7-129
68	3817	4000	4184	4367	4550	4734	4917	5101	5284	5467		8-147
69	5651	5834	6017	6200	6384	6567	6750	6934	7117	7300		9-166
2370	7483	7667	7850	8033	8216	8400	8583	8766	8949	9132		183
71	9316	9499	9682	9865	0048	0231	0414	0597	0781	0964		1-18
72	3751147	1330	1513	1696	1879	2062	2245	2428	2611	2794	183	2-37
73	2977	3160	3343	3526	3709	3892	4075	4258	4441	4624		3-55
74	4807	4990	5173	5356	5539	5722	5905	6087	6270	6453		4-73
75	6636	6819	7002	7185	7367	7550	7733	7916	8099	8282		5-91
76	8464	8647	8830	9013	9195	9378	9561	9744	9926	0109		6-110
77	3760292	0474	0657	0840	1023	1205	1388	1571	1753	1936		7-128
78	2118	2301	2484	2666	2849	3032	3214	3397	3579	3762		8-146
79	3944	4127	4309	4492	4675	4857	5040	5222	5405	5587		9-165
2380	5770	5952	6135	6317	6499	6682	6864	7047	7229	7412		182
81	7594	7776	7958	8141	8323	8506	8688	8871	9053	9235		1-18
82	9418	9600	9782	9964	0147	0329	0511	0694	0876	1058		2-36
83	3771240	1423	1605	1787	1969	2152	2334	2516	2698	2880		3-55
84	3062	3245	3427	3609	3791	3973	4155	4337	4520	4702		4-73
85	4884	5066	5248	5430	5612	5794	5976	6158	6340	6522	182	5-91
86	6704	6886	7068	7250	7432	7614	7796	7978	8160	8342		6-109
87	8524	8706	8888	9070	9252	9434	9616	9798	9979	0161		7-127
88	3780343	0525	0707	0889	1071	1252	1434	1616	1798	1980		8-146
89	2161	2343	2525	2707	2889	3070	3252	3434	3616	3797		9-164
2390	3979	4161	4342	4524	4706	4887	5069	5251	5432	5614		181
91	5796	5977	6159	6341	6522	6704	6885	7067	7249	7430		1-18
92	7612	7793	7975	8156	8338	8519	8701	8882	9064	9245		2-36
93	9427	9608	9790	9971	0153	0334	0516	0697	0879	1060		3-54
94	3791241	1423	1604	1786	1967	2148	2330	2511	2692	2874		4-72
95	3055	3236	3418	3599	3780	3962	4143	4324	4506	4687		5-90
96	4868	5049	5231	5412	5593	5774	5956	6137	6318	6499		6-109
97	6680	6861	7043	7224	7405	7586	7767	7948	8130	8311		7-127
98	8492	8673	8854	9035	9216	9397	9578	9759	9940	0121		8-145
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03	7538	7718	7899	8080	8261	8441	8622	8803	8983	9164		3-54
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09	8368	8548	8728	8909	9089	9269	9449	9630	9810	9990		9-163
2410	3820170	0351	0531	0711	0891	1071	1251	1432	1612	1792		
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12	3773	3953	4133	4313	4493	4673	4853	5033	5213	5393		180
13	5573	5753	5933	6113	6293	6473	6653	6833	7013	7193		1-18
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19	6359	6538	6718	6897	7077	7256	7436	7615	7795	7974		7-126
2420	8154	8333	8512	8692	8871	9051	9230	9410	9589	9768		8-144
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22	3841741	1921	2100	2279	2458	2638	2817	2996	3176	3355		
23	3534	3713	3893	4072	4251	4430	4609	4789	4968	5147		179
24	5326	5505	5684	5864	6043	6222	6401	6580	6759	6938		1-18
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27	3850698	0877	1056	1234	1413	1592	1771	1950	2129	2308		4-72
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33	3861421	1599	1778	1956	2135	2313	2492	2670	2849	3027		
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38	3870337	0515	0693	0871	1049	1227	1406	1584	1762	1940		5-89
39	2118	2296	2474	2652	2830	3008	3186	3364	3542	3720	178	
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44	3881012	1190	1367	1545	1723	1900	2078	2256	2433	2611		5-89
45	2789	2966	3144	3321	3499	3677	3854	4032	4209	4387		6-107
46	4565	4742	4920	5097	5275	5452	5630	5807	5985	6162		7-125
47	6340	6517	6695	6872	7049	7227	7404	7582	7759	7937		8-142
48	8114	8291	8469	8646	8824	9001	9178	9356	9533	9710		9-160
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51	3433	3610	3787	3965	4142	4319	4496	4673	4850	5027		1-18
52	5205	5382	5559	5736	5913	6090	6267	6444	6621	6798		2-35
53	6975	7152	7329	7506	7684	7861	8038	8215	8392	8569	177	3-53
54	8746	8922	9099	9276	9453	9630	9807	9984	0161	0338		4-71
55	3900515	0692	0869	1046	1222	1399	1576	1753	1930	2107		5-88
56	2284	2460	2637	2814	2991	3168	3344	3521	3698	3875		6-106
57	4052	4228	4405	4582	4758	4935	5112	5289	5465	5642		7-124
58	5819	5995	6172	6349	6525	6702	6879	7055	7232	7409		8-142
59	7585	7762	7938	8115	8292	8468	8645	8821	8998	9174		9-159
2460	9351	9528	9704	9881	0057	0234	0410	0587	0763	0940		
61	3911116	1293	1469	1645	1822	1998	2175	2351	2528	2704		
62	2880	3057	3233	3416	3586	3762	3940	4115	4291	4468		
63	4644	4820	4997	5173	5349	5526	5702	5878	6054	6231		
64	6407	6583	6759	6936	7112	7288	7464	7641	7817	7993		176
65	8169	8345	8521	8698	8874	9050	9226	9402	9578	9755		1-18
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67	3921691	1867	2043	2219	2396	2572	2748	2924	3099	3275		3-53
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72	3930485	0660	0836	1012	1187	1363	1539	1714	1890	2065		8-141
73	2241	2417	2592	2768	2943	3119	3295	3470	3646	3821		9-158
74	3997	4172	4348	4523	4699	4874	5050	5225	5401	5576		
75	5752	5927	6103	6278	6454	6629	6805	6980	7155	7331		
76	7506	7682	7857	8033	8208	8383	8559	8734	8909	9085		
77	9260	9435	9611	9786	9961	0137	0312	0487	0662	0838		175
78	3941013	1188	1363	1539	1714	1889	2064	2240	2415	2590		1-17
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82	8018	8193	8368	8543	8718	8893	9067	9242	9417	9592		5-87
83	9767	9942	0117	0292	0467	0642	0816	0991	1166	1341		6-105
84	3951516	1691	1866	2040	2215	2390	2565	2740	2914	3089		7-122
85	3264	3439	3613	3788	3963	4138	4312	4487	4662	4836		8-140
86	5011	5186	5361	5535	5710	5885	6059	6234	6409	6583		9-157
87	6758	6932	7107	7282	7456	7631	7805	7980	8155	8329		
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89	3960249	0423	0598	0772	0947	1121	1296	1470	1645	1819		
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91	3737	3912	4086	4260	4435	4609	4783	4957	5132	5306		1-17
92	5480	5655	5829	6003	6177	6352	6526	6700	6874	7049		2-35
93	7223	7397	7571	7745	7920	8094	8268	8442	8616	8790		3-52
94	8964	9139	9313	9487	9661	9835	0009	0183	0357	0531		4-70
95	3970705	0880	1054	1228	1402	1576	1750	1924	2098	2272	174	5-87
96	2446	2620	2794	2968	3142	3316	3490	3664	3838	4011		6-104
97	4185	4359	4533	4707	4881	5055	5229	5403	5577	5750		7-122
98	5924	6098	6272	6446	6620	6793	6967	7141	7315	7489		8-139
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05	8077	8251	8424	8597	8771	8944	9117	9291	9464	9637		5-87
06	9811	9984	0157	0330	0504	0677	0850	1024	1197	1370		6-104
07	3991543	1717	1890	2063	2236	2409	2583	2756	2929	3102		7-122
08	3275	3448	3622	3795	3968	4141	4314	4487	4660	4833		8-139
09	5007	5180	5353	5526	5699	5872	6045	6218	6391	6564		9-157
2510	6737	6910	7083	7256	7429	7602	7775	7948	8121	8294	173	
11	8467	8640	8813	8986	9159	9332	9505	9678	9850	0023		
12	4000196	0369	0542	0715	0888	1061	1233	1406	1579	1752		173
13	1925	2098	2270	2443	2616	2789	2962	3134	3307	3480		1-17
14	3653	3825	3998	4171	4344	4516	4689	4862	5034	5207		2-35
15	5380	5552	5725	5898	6070	6243	6416	6588	6761	6934		3-52
16	7106	7279	7451	7624	7797	7969	8142	8314	8487	8660		4-69
17	8832	9005	9177	9350	9522	9695	9867	0040	0212	0385		5-86
18	4010557	0730	0902	1075	1247	1419	1592	1764	1937	2109		6-104
19	2282	2454	2626	2799	2971	3144	3316	3488	3661	3833		7-121
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21	5728	5901	6073	6245	6417	6590	6762	6934	7106	7279		9-156
22	7451	7623	7795	7967	8140	8312	8484	8656	8828	9000		
23	9173	9345	9517	9689	9861	0033	0205	0377	0549	0721		
24	4020893	1066	1238	1410	1582	1754	1926	2098	2270	2442	172	
25	2614	2786	2958	3130	3302	3474	3646	3818	3990	4162		
26	4333	4505	4677	4849	5021	5193	5365	5537	5709	5881		172
27	6052	6224	6396	6568	6740	6912	7083	7255	7427	7599		1-17
28	7771	7942	8114	8286	8458	8629	8801	8973	9145	9317		2-34
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31	2921	3093	3265	3436	3608	3779	3951	4122	4294	4465		5-86
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35	9780	9951	0122	0294	0465	0636	0807	0979	1150	1321		9-155
36	4041492	1664	1835	2006	2177	2349	2520	2691	2862	3033		
37	3205	3376	3547	3718	3889	4060	4232	4403	4574	4745		
38	4916	5087	5258	5429	5601	5772	5943	6114	6285	6456		
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41	4050047	0218	0388	0559	0730	0901	1072	1243	1414	1585		1-17
42	1755	1926	2097	2268	2439	2610	2780	2951	3122	3293		2-34
43	3404	3634	3805	3976	4147	4317	4488	4659	4830	5000		3-51
44	5171	5342	5512	5683	5854	6025	6195	6366	6537	6707		4-68
45	6878	7048	7219	7390	7560	7731	7902	8072	8243	8413		5-85
46	8584	8755	8925	9096	9266	9437	9607	9778	9948	0119		6-103
47	4060289	0460	0630	0801	0971	1142	1312	1483	1653	1824		7-120
48	1994	2165	2335	2505	2676	2846	3017	3187	3358	3528		8-137
49	3698	3869	4039	4209	4380	4550	4720	4891	5061	5232		9-541
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52	8807	8977	9147	9317	9487	9657	9828	9998	0168	0338		2-34
53	4070508	0678	0848	1018	1188	1359	1529	1699	1869	2039		3-51
54	2209	2379	2549	2719	2889	3059	3229	3399	3569	3739	170	4-68
55	3909	4079	4249	4419	4589	4759	4929	5099	5269	5439		5-85
56	5608	5778	5948	6118	6288	6458	6628	6798	6968	7137		6-102
57	7307	7477	7647	7817	7987	8156	8326	8496	8666	8836		7-119
58	9005	9175	9345	9515	9684	9854	0024	0194	0363	0533		8-136
59	4080703	0873	1042	1212	1382	1551	1721	1891	2060	2230		9-153
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61	4096	4265	4435	4604	4774	4944	5113	5283	5452	5622		
62	5791	5961	6130	6300	6469	6639	6808	6978	7147	7317		
63	7486	7655	7825	7994	8164	8333	8503	8672	8841	9011		
64	9180	9350	9519	9688	9858	0027	0196	0366	0535	0704		169
65	4090874	1043	1212	1382	1551	1720	1889	2059	2228	2397		1-17
66	2567	2736	2905	3074	3243	3413	3582	3751	3920	4089		2-34
67	4259	4428	4597	4766	4935	5104	5274	5443	5612	5781		3-51
68	5950	6119	6288	6457	6627	6796	6965	7134	7303	7472		4-68
69	7641	7810	7979	8148	8317	8486	8655	8824	8993	9162	169	5-84
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71	4101021	1190	1359	1527	1696	1865	2034	2203	2372	2541		7-118
72	2710	2878	3047	3216	3385	3554	3723	3891	4060	4229		8-135
73	4398	4567	4735	4904	5073	5242	5410	5579	5748	5917		9-152
74	6085	6254	6423	6592	6760	6929	7098	7266	7435	7604		
75	7772	7941	8110	8278	8447	8615	8784	8953	9121	9290		
76	9459	9627	9796	9964	0133	0301	0470	0639	0807	0976		
77	4111144	1313	1481	1650	1818	1987	2155	2324	2492	2661		168
78	2829	2998	3166	3334	3503	3671	3840	4008	4177	4345		1-17
79	4513	4682	4850	5019	5187	5355	5524	5692	5860	6029		2-34
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81	7880	8048	8217	8385	8553	8721	8889	9058	9226	9394		4-67
82	9562	9731	9899	0067	0235	0403	0571	0740	0908	1076		5-84
83	4121244	1412	1580	1748	1917	2085	2253	2421	2589	2757		6-101
84	2925	3093	3261	3429	3597	3765	3933	4101	4269	4437	168	7-118
85	4605	4773	4941	5109	5277	5445	5613	5781	5949	6117		8-134
86	6285	6453	6621	6789	6957	7125	7293	7461	7628	7796		9-151
87	7964	8132	8300	8468	8636	8804	8971	9139	9307	9475		
88	9643	9810	9978	0146	0314	0482	0649	0817	0985	1153		
89	4131320	1488	1656	1824	1991	2159	2327	2495	2662	2830		
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91	4674	4842	5009	5177	5344	5512	5680	5847	6015	6182		1-17
92	6350	6517	6685	6853	7020	7188	7355	7523	7690	7858		2-33
93	8025	8193	8360	8528	8695	8862	9030	9197	9365	9532		3-50
94	9700	9867	0035	0202	0369	0537	0704	0871	1039	1206		4-67
95	4141374	1541	1708	1876	2043	2210	2378	2545	2712	2880		5-83
96	3047	3214	3381	3549	3716	3883	4050	4218	4385	4552		6-100
97	4719	4887	5054	5221	5388	5556	5723	5890	6057	6224		7-117
98	6391	6559	6726	6893	7060	7227	7394	7561	7729	7896		8-134
99	8063	8230	8397	8564	8731	8898	9065	9232	9399	9566	167	9-150
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# N. 26000 L.414

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01	4151404	1570	1737	1904	2071	2238	2405	2572	2739	2906		1-17
02	3073	3240	3407	3574	3740	3907	4074	4241	4408	4575		2-33
03	4742	4908	5075	5242	5409	5576	5743	5909	6076	6243		3-50
04	6410	6577	6743	6910	7077	7244	7410	7577	7744	7911		4-67
05	8077	8244	8411	8577	8744	8911	9077	9244	9411	9577		5-83
06	9744	9911	0077	0244	0411	0577	0744	0910	1077	1244		6-100
07	4161410	1577	1743	1910	2077	2243	2410	2576	2743	2909		7-117
08	3076	3242	3409	3575	3742	3908	4075	4241	4408	4574		8-134
09	4741	4907	5074	5240	5407	5573	5739	5906	6072	6239		9-150
2610	6405	6571	6738	6904	7071	7237	7403	7570	7736	7902		
11	8069	8235	8401	8568	8734	8900	9067	9233	9399	9565		
12	9732	9898	0064	0230	0397	0563	0729	0895	1062	1228		
13	4171394	1560	1726	1893	2059	2225	2391	2557	2723	2890		166
14	3056	3222	3388	3554	3720	3886	4053	4219	4385	4551		1-17
15	4717	4883	5049	5215	5381	5547	5713	5879	6045	6211	166	2-33
16	6377	6543	6709	6875	7041	7207	7373	7539	7705	7871		3-50
17	8037	8203	8369	8535	8701	8867	9033	9199	9365	9530		4-66
18	9696	9862	0028	0194	0360	0526	0692	0857	1023	1189		5-83
19	4181355	1521	1687	1852	2018	2184	2350	2516	2681	2847		6-100
2620	3013	3179	3344	3510	3676	3842	4007	4173	4339	4504		7-116
21	4670	4836	5002	5167	5333	5499	5664	5830	5996	6161		8-133
22	6327	6492	6658	6824	6989	7155	7321	7486	7652	7817		9-149
23	7983	8148	8314	8480	8645	8811	8976	9142	9307	9473		
24	9638	9804	9969	0135	0300	0466	0631	0797	0962	1128		
25	4191293	1458	1624	1789	1955	2120	2286	2451	2616	2782		165
26	2947	3113	3278	3443	3609	3774	3939	4105	4270	4435		1-16
27	4601	4766	4931	5097	5262	5427	5592	5758	5923	6088		2-33
28	6254	6419	6584	6749	6915	7080	7245	7410	7575	7741		3-49
29	7906	8071	8236	8401	8567	8732	8897	9062	9227	9392		4-66
2630	9557	9723	9888	0053	0218	0383	0548	0713	0878	1043		5-82
31	4201208	1373	1539	1704	1869	2034	2199	2364	2529	2694	165	6-99
32	2859	3024	3189	3354	3519	3684	3849	4014	4179	4344		7-115
33	4509	4673	4838	5003	5168	5333	5498	5663	5828	5993		8-132
34	6158	6323	6487	6652	6817	6982	7147	7312	7476	7641		9-148
35	7806	7971	8136	8301	8465	8630	8795	8960	9124	9289		
36	9454	9619	9784	9948	0113	0278	0442	0607	0772	0937		
37	4211101	1266	1431	1595	1760	1925	2089	2254	2419	2583		
38	2748	2912	3077	3242	3406	3571	3736	3900	4065	4229		
39	4394	4558	4723	4888	5052	5217	5381	5546	5710	5875		
2640	6039	6204	6368	6533	6697	6862	7026	7191	7355	7520		164
41	7684	7848	8013	8177	8342	8506	8671	8835	8999	9164		1-16
42	9328	9492	9657	9821	9986	0150	0314	0479	0643	0807		2-33
43	4220972	1136	1300	1465	1629	1793	1957	2122	2286	2450		3-49
44	2614	2779	2943	3107	3271	3436	3600	3764	3928	4093		4-66
45	4257	4421	4585	4749	4913	5078	5242	5406	5570	5734		5-82
46	5898	6062	6227	6391	6555	6719	6883	7047	7211	7375		6-98
47	7539	7703	7867	8032	8196	8360	8524	8688	8852	9016		7-115
48	9180	9344	9508	9672	9836	0000	0164	0328	0492	0656	164	8-131
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52	5735	5899	6063	6226	6390	6554	6718	6881	7045	7209		2-33
53	7372	7536	7700	7864	8027	8191	8355	8518	8682	8845		3-49
54	9009	9173	9336	9500	9664	9827	9991	0154	0318	0482		4-65
55	4240	645	0809	0972	1136	1299	1463	1627	1790	1954	2117	5-81
56	2281	2444	2608	2771	2935	3098	3262	3425	3589	3752		6-98
57	3916	4079	4242	4406	4569	4733	4896	5060	5223	5386		7-114
58	5550	5713	5876	6040	6203	6367	6530	6693	6857	7020		8-130
59	7183	7347	7510	7673	7837	8000	8163	8326	8490	8653		9-147
1660	8816	8980	9143	9306	9469	9633	9796	9959	0122	0285		
61	4250	449	0612	0775	0938	1101	1265	1428	1591	1754	1917	
62	2081	2244	2407	2570	2733	2896	3059	3222	3385	3549		
63	3712	3875	4038	4201	4364	4527	4690	4853	5016	5179	163	
64	5342	5505	5668	5831	5994	6157	6320	6483	6646	6809		
65	6972	7135	7298	7461	7624	7787	7950	8113	8276	8438		
66	8601	8764	8927	9090	9253	9416	9579	9742	9904	0067		
67	4260	230	0393	0556	0719	0881	1044	1207	1370	1533	1695	
68	1858	2021	2184	2347	2509	2672	2835	2998	3160	3323		
69	3486	3648	3811	3974	4137	4299	4462	4625	4787	4950		
2670	5113	5275	5438	5601	5763	5926	6088	6251	6414	6576		162
71	6739	6901	7064	7227	7389	7552	7714	7877	8039	8202		1-16
72	8365	8527	8690	8852	9015	9177	9340	9502	9665	9827		2-32
73	9990	0152	0314	0477	0639	0802	0964	1127	1289	1452		3-49
74	4271	614	1776	1939	2101	2264	2426	2588	2751	2913	3075	4-65
75	3238	3400	3563	3725	3887	4050	4212	4374	4536	4699		5-81
76	4861	5023	5186	5348	5510	5672	5835	5997	6159	6321		6-97
77	6484	6646	6808	6970	7133	7295	7457	7619	7781	7944		7-113
78	8106	8268	8430	8592	8754	8916	9079	9241	9403	9565		8-130
79	9727	9889	0051	0213	0375	0538	0700	0862	1024	1186		9-146
2680	4281	348	1510	1672	1834	1996	2158	2320	2482	2644	2806	162
81	2968	3130	3292	3454	3616	3778	3940	4102	4264	4426		
82	4588	4750	4912	5073	5235	5397	5559	5721	5883	6045		
83	6207	6369	6530	6692	6854	7016	7178	7340	7501	7663		
84	7825	7987	8149	8310	8472	8634	8796	8958	9119	9281		
85	9443	9605	9766	9928	0090	0252	0413	0575	0737	0898		
86	4291	060	1222	1383	1545	1707	1868	2030	2192	2353	2515	
87	2677	2838	3000	3161	3323	3485	3646	3808	3969	4131		
88	4293	4454	4616	4777	4939	5100	5262	5423	5585	5746		
89	5908	6069	6231	6392	6554	6715	6877	7038	7200	7361		
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91	9137	9298	9460	9621	9782	9944	0105	0266	0428	0589		1-16
92	4300	751	0912	1073	1234	1396	1557	1718	1880	2041	2202	2-32
93	2363	2525	2686	2847	3009	3170	3331	3492	3653	3815		3-48
94	3976	4137	4298	4459	4621	4782	4943	5104	5265	5426		4-64
95	5588	5749	5910	6071	6232	6393	6554	6716	6877	7038		5-80
96	7199	7360	7521	7682	7843	8004	8165	8326	8487	8648		6-97
97	8809	8970	9131	9292	9453	9614	9775	9936	0097	0258		7-113
98	4310	419	0580	0741	0902	1063	1224	1385	1546	1707	1868	8-129
99	2020	2190	2351	2511	2672	2833	2994	3155	3316	3477		9-145
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02	6853	7014	7175	7336	7496	7657	7818	7978	8139	8300		2-32
03	8460	8621	8782	8942	9103	9264	9424	9585	9746	9906		3-48
04	4320067	0227	0388	0549	0709	0870	1030	1191	1352	1512		4-64
05	1673	1833	1994	2154	2315	2475	2636	2796	2957	3117		5-80
06	3278	3438	3599	3759	3920	4080	4241	4401	4562	4722		6-97
07	4883	5043	5203	5364	5524	5685	5845	6005	6166	6326		7-113
08	6487	6647	6807	6968	7128	7288	7449	7609	7769	7930		8-129
09	8090	8250	8411	8571	8731	8892	9052	9212	9372	9533		9-145
2710	9693	9853	0013	0174	0334	0494	0654	0815	0975	1135		
11	4331295	1455	1616	1776	1936	2096	2256	2416	2577	2737		
12	2897	3057	3217	3377	3537	3697	3857	4018	4178	4338		
13	4498	4658	4818	4978	5138	5298	5458	5618	5778	5938	160	160
14	6098	6258	6418	6578	6738	6898	7058	7218	7378	7538		1-16
15	7698	7858	8018	8178	8338	8498	8658	8818	8978	9138		2-32
16	9298	9458	9617	9777	9937	0097	0257	0417	0577	0736		3-48
17	4340896	1056	1216	1376	1536	1695	1855	2015	2175	2335		4-64
18	2495	2654	2814	2974	3134	3293	3453	3613	3773	3932		5-80
19	4092	4252	4411	4571	4731	4891	5050	5210	5370	5529		6-96
2720	5689	5849	6008	6168	6328	6487	6647	6807	6966	7126		7-112
21	7285	7445	7605	7764	7924	8083	8243	8402	8562	8722		8-128
22	8881	9041	9200	9360	9519	9679	9838	9998	0157	0317		9-144
23	4350476	0636	0795	0955	1114	1274	1433	1593	1752	1912		
24	2071	2230	2390	2549	2709	2868	3027	3187	3346	3506		
25	3665	3824	3984	4143	4302	4462	4621	4780	4940	5099		
26	5259	5418	5577	5736	5896	6055	6214	6374	6533	6692		
27	6851	7011	7170	7329	7488	7648	7807	7966	8125	8284		159
28	8444	8603	8762	8921	9080	9240	9399	9558	9717	9876		1-16
29	4360035	0194	0354	0513	0672	0831	0990	1149	1308	1467		2-32
2730	1626	1786	1945	2104	2263	2422	2581	2740	2899	3058	159	3-48
31	3217	3376	3535	3694	3853	4012	4171	4330	4489	4648		4-64
32	4807	4966	5125	5284	5443	5602	5761	5920	6078	6237		5-79
33	6396	6555	6714	6873	7032	7191	7350	7508	7667	7826		6-95
34	7985	8144	8303	8462	8620	8779	8938	9097	9256	9414		7-111
35	9573	9732	9891	0050	0208	0367	0526	0685	0843	1002		8-127
36	4371161	1320	1478	1637	1796	1954	2113	2272	2431	2589		9-143
37	2748	2907	3065	3224	3383	3541	3700	3859	4017	4176		
38	4334	4493	4652	4810	4969	5127	5286	5445	5603	5762		
39	5920	6079	6237	6396	6554	6713	6872	7030	7189	7347		
2740	7506	7664	7823	7981	8140	8298	8456	8615	8773	8932		158
41	9090	9249	9407	9566	9724	9882	0041	0199	0358	0516		1-16
42	4380675	0833	0991	1150	1308	1466	1625	1783	1941	2100		2-32
43	2258	2416	2575	2733	2891	3050	3208	3366	3524	3683		3-47
44	3841	3999	4158	4316	4474	4632	4791	4949	5107	5265		4-63
45	5423	5582	5740	5898	6056	6214	6373	6531	6689	6847		5-79
46	7005	7163	7322	7480	7638	7796	7954	8112	8270	8428		6-95
47	8587	8745	8903	9061	9219	9377	9535	9693	9851	0009		7-111
48	4390167	0325	0483	0641	0799	0957	1115	1273	1431	1589	158	8-126
49	1747	1905	2063	2221	2379	2537	2695	2853	3011	3169		9-142
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51		4906	5064	5222	5379	5537	5695	5853	6011	6169	6326	1-16
52		6484	6642	6800	6958	7115	7273	7431	7589	7747	7904	2-31
53		8062	8220	8378	8535	8693	8851	9008	9166	9324	9482	3-47
54		9639	9797	9955	0112	0270	0428	0585	0743	0901	1058	4-63
55	440	1216	1374	1531	1689	1846	2004	2162	2319	2477	2634	5-78
56		2792	2950	3107	3265	3422	3580	3737	3895	4053	4210	6-94
57		4368	4525	4683	4840	4998	5155	5313	5470	5628	5785	7-110
58		5943	6100	6257	6415	6572	6730	6887	7045	7202	7360	8-126
59		7517	7674	7832	7989	8147	8304	8461	8619	8776	8933	9-141
2760		9091	9248	9405	9563	9720	9877	0035	0192	0349	0507	
61	441	0664	0821	0979	1136	1293	1450	1608	1765	1922	2079	
62		2237	2394	2551	2708	2866	3023	3180	3337	3494	3652	
63		3809	3966	4123	4280	4437	4595	4752	4909	5066	5223	
64		5380	5537	5695	5852	6009	6166	6323	6480	6637	6794	
65		6951	7108	7265	7422	7580	7737	7894	8051	8208	8365	
66		8522	8679	8836	8993	9150	9307	9464	9621	9778	9935	157
67	442	0092	0248	0405	0562	0719	0876	1033	1190	1347	1504	
68		1661	1818	1975	2131	2288	2445	2602	2759	2916	3073	
69		3230	3386	3543	3700	3857	4014	4170	4327	4484	4641	
2770		4798	4954	5111	5268	5425	5581	5738	5895	6052	6208	156
71		6365	6522	6679	6835	6992	7149	7305	7462	7619	7776	1-16
72		7932	8089	8246	8402	8559	8715	8872	9029	9185	9342	2-31
73		9499	9655	9812	9968	0125	0282	0438	0595	0751	0908	3-47
74	443	1065	1221	1378	1534	1691	1847	2004	2160	2317	2473	4-62
75		2630	2786	2943	3099	3256	3412	3569	3725	3882	4038	5-78
76		4195	4351	4507	4664	4820	4977	5133	5290	5446	5602	6-94
77		5759	5915	6072	6228	6384	6541	6697	6853	7010	7166	7-109
78		7322	7479	7635	7791	7948	8104	8260	8417	8573	8729	8-125
79		8885	9042	9198	9354	9510	9667	9823	9979	0135	0292	9-140
2780	444	0448	0604	0760	0917	1073	1229	1385	1541	1697	1854	
81		2010	2166	2322	2478	2634	2791	2947	3103	3259	3415	
82		3571	3727	3883	4040	4196	4352	4508	4664	4820	4976	
83		5132	5288	5444	5600	5756	5912	6068	6224	6380	6536	156
84		6692	6848	7004	7160	7316	7472	7628	7784	7940	8096	
85		8252	8408	8564	8720	8876	9032	9187	9343	9499	9655	
86		9811	9967	0123	0279	0435	0590	0746	0902	1058	1214	
87	445	1370	1525	1681	1837	1993	2149	2305	2460	2616	2772	
88		2928	3083	3239	3395	3551	3706	3862	4018	4174	4329	
89		4485	4641	4797	4952	5108	5264	5419	5575	5731	5886	
2790		6042	6198	6353	6509	6665	6820	6976	7131	7287	7443	155
91		7598	7754	7910	8065	8221	8376	8532	8687	8843	8999	1-15
92		9154	9310	9465	9621	9776	9932	0087	0243	0398	0554	2-31
93	446	0709	0865	1020	1176	1331	1487	1642	1797	1953	2109	3-46
94		2264	2419	2575	2730	2886	3041	3196	3352	3507	3663	4-62
95		3818	3973	4129	4284	4440	4595	4750	4906	5061	5216	5-77
96		5372	5527	5682	5838	5993	6148	6303	6459	6614	6769	6-93
97		6925	7080	7235	7390	7546	7701	7856	8011	8167	8322	7-108
98		8477	8632	8787	8943	9098	9253	9408	9563	9719	9874	8-124
99	447	0029	0184	0339	0494	0650	0805	0960	1115	1270	1425	9-139
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02		4681	4836	4991	5146	5301	5456	5611	5766	5921	6076	2-31
03		6231	6386	6541	6696	6851	7006	7160	7315	7470	7625	3-46
04		7780	7935	8090	8245	8400	8554	8709	8864	9019	9174	4-62
05		9329	9483	9638	9793	9948	0103	0257	0412	0567	0722	5-77
06	448	0877	1031	1186	1341	1496	1650	1805	1960	2115	2269	6-93
07		2424	2579	2734	2888	3043	3198	3352	3507	3662	3816	7-108
08		3971	4126	4280	4435	4590	4744	4899	5053	5208	5363	8-124
09		5517	5672	5827	5981	6136	6290	6445	6599	6754	6909	9-139
2810		7063	7218	7372	7527	7681	7836	7990	8145	8299	8454	
11		8608	8763	8917	9072	9226	9381	9535	9690	9844	9999	
12	449	0153	0308	0462	0616	0771	0925	1080	1234	1388	1543	
13		1697	1852	2006	2160	2315	2469	2623	2778	2932	3087	
14		3241	3395	3550	3704	3858	4012	4167	4321	4475	4630	
15		4784	4938	5092	5247	5401	5555	5710	5864	6018	6172	
16		6327	6481	6635	6789	6943	7098	7252	7406	7560	7714	
17		7868	8023	8177	8331	8485	8639	8793	8947	9102	9256	
18		9410	9564	9718	9872	0026	0180	0334	0489	0643	0797	
19	450	0951	1105	1259	1413	1567	1721	1875	2029	2183	2337	154
2820		2491	2645	2799	2953	3107	3261	3415	3569	3722	3877	154
21		4031	4185	4339	4493	4647	4800	4954	5108	5262	5416	1-15
22		5570	5724	5878	6032	6186	6339	6493	6647	6801	6955	2-31
23		7109	7263	7416	7570	7724	7878	8032	8185	8339	8493	3-46
24		8647	8801	8954	9108	9262	9416	9569	9723	9877	0031	4-62
25	451	0185	0338	0492	0646	0799	0953	1107	1260	1414	1568	5-77
26		1722	1875	2029	2183	2336	2490	2643	2797	2951	3104	6-92
27		3258	3412	3565	3719	3872	4026	4180	4333	4487	4640	7-108
28		4794	4948	5101	5255	5408	5562	5715	5869	6022	6176	8-123
29		6329	6483	6636	6790	6943	7097	7250	7404	7557	7711	9-139
2830		7864	8018	8171	8325	8478	8632	8785	8938	9092	9245	
31		9399	9552	9705	9859	0012	0166	0319	0472	0626	0779	
32	452	0032	1086	1239	1392	1546	1699	1852	2006	2159	2312	
33		2466	2619	2772	2926	3079	3232	3385	3539	3692	3845	
34		3998	4152	4305	4458	4611	4765	4918	5071	5224	5377	
35		5531	5684	5837	5990	6143	6296	6450	6603	6756	6909	
36		7062	7215	7368	7522	7675	7828	7981	8134	8287	8440	
37		8592	8746	8899	9053	9206	9359	9512	9665	9818	9971	
38	453	0124	0277	0430	0583	0736	0889	1042	1195	1347	1501	153
39		1654	1807	1960	2113	2266	2419	2572	2725	2877	3030	
2840		3183	3336	3489	3642	3795	3948	4101	4254	4407	4559	153
41		4712	4865	5018	5171	5324	5477	5629	5782	5935	6088	1-15
42		6241	6393	6546	6699	6852	7005	7157	7310	7463	7616	2-31
43		7769	7921	8074	8227	8380	8532	8685	8838	8990	9143	3-46
44		9296	9449	9601	9754	9907	0059	0212	0365	0517	0670	4-61
45	454	0823	0975	1128	1281	1433	1586	1738	1891	2044	2196	5-76
46		2349	2502	2654	2807	2959	3112	3264	3417	3570	3722	6-92
47		3875	4027	4180	4332	4485	4637	4790	4942	5095	5247	7-107
48		5400	5552	5705	5857	6010	6162	6315	6467	6620	6772	8-122
49		6924	7077	7229	7382	7534	7687	7839	7991	8144	8296	9-138
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# N. 28500 L.454

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51	9972	0124	0277	0429	0581	0734	0886	1038	1191	1343		1-15
52	455	1495	1647	1800	1952	2104	2256	2409	2561	2713	2865	2-30
53	3018	3170	3322	3474	3627	3779	3931	4083	4235	4387		3-46
54	4540	4692	4844	4996	5148	5300	5453	5605	5757	5909		4-61
55	6061	6213	6365	6517	6670	6822	6974	7126	7278	7430		5-76
56	7582	7734	7886	8038	8190	8342	8494	8646	8798	8950	152	6-91
57	9102	9254	9406	9558	9710	9862	0014	0166	0318	0470		7-106
58	456	0622	0774	0926	1078	1230	1382	1534	1686	1838	1990	8-122
59	2142	2293	2445	2597	2749	2901	3053	3205	3357	3508		9-137
2860	3660	3812	3964	4116	4268	4419	4571	4723	4875	5027		
61	5179	5330	5482	5634	5786	5937	6089	6241	6393	6544		
62	6696	6848	7000	7151	7303	7455	7607	7758	7910	8062		
63	8213	8365	8517	8668	8820	8972	9123	9275	9427	9578		
64	9730	9882	0033	0185	0337	0488	0640	0791	0943	1095		
65	457	1246	1398	1549	1701	1853	2004	2156	2307	2459	2610	
66	2762	2913	3065	3216	3368	3519	3671	3822	3974	4125		
67	4277	4428	4580	4731	4883	5034	5186	5337	5489	5640		
68	5791	5943	6094	6246	6397	6548	6700	6851	7003	7154		
69	7305	7457	7608	7760	7911	8062	8214	8365	8516	8668		
2870	8819	8970	9122	9273	9424	9575	9727	9878	0029	0181		151
71	458	0332	0483	0634	0786	0937	1088	1239	1391	1542	1693	1-15
72	1844	1996	2147	2298	2449	2600	2752	2903	3054	3205		2-30
73	3350	3507	3659	3810	3961	4112	4263	4414	4565	4716		3-45
74	4868	5019	5170	5321	5472	5623	5774	5925	6076	6227		4-60
75	6378	6529	6681	6832	6983	7134	7285	7436	7587	7738	151	5-75
76	7889	8040	8191	8342	8493	8644	8795	8946	9097	9248		6-91
77	9399	9550	9700	9851	0002	0153	0304	0455	0606	0757		7-106
78	459	0908	1059	1210	1361	1511	1662	1813	1964	2115	2266	8-121
79	2417	2567	2718	2869	3020	3171	3322	3473	3623	3774		9-136
2880	3925	4076	4226	4377	4528	4679	4830	4980	5131	5282		
81	5433	5583	5734	5885	6035	6186	6337	6488	6638	6789		
82	6940	7090	7241	7392	7542	7693	7844	7994	8145	8296		
83	8446	8597	8748	8898	9049	9200	9350	9501	9651	9802		
84	9953	0103	0254	0404	0555	0705	0856	1006	1157	1308		
85	460	1458	1609	1759	1910	2060	2211	2361	2512	2662	2813	
86	2963	3114	3264	3415	3565	3716	3866	4016	4167	4317		
87	4468	4618	4769	4919	5069	5220	5370	5521	5671	5821		
88	5972	6122	6273	6423	6573	6724	6874	7024	7175	7325		
89	7475	7626	7776	7926	8077	8227	8377	8528	8678	8828		
2890	8978	9129	9279	9429	9579	9730	9880	0030	0180	0331		150
91	461	0481	0631	0781	0932	1082	1232	1382	1532	1682	1833	1-15
92	1983	2133	2283	2433	2583	2734	2884	3034	3184	3334		2-30
93	3484	3634	3785	3935	4085	4235	4385	4535	4685	4835		3-45
94	4985	5135	5285	5435	5585	5735	5886	6036	6186	6336	150	4-60
95	6486	6636	6786	6936	7086	7236	7386	7536	7686	7836		5-75
96	7986	8135	8285	8435	8585	8735	8885	9035	9185	9335		6-90
97	9485	9635	9785	9935	0085	0234	0384	0534	0684	0834		7-105
98	462	0984	1134	1283	1433	1583	1733	1883	2033	2182	2332	8-120
99	2482	2632	2782	2932	3081	3231	3381	3531	3680	3830		9-135
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01	5477	5627	5777	5926	6076	6226	6375	6525	6675	6824		1-15
02	6974	7124	7273	7423	7573	7722	7872	8021	8171	8321		2-30
03	8470	8620	8770	8919	9069	9218	9368	9517	9667	9817		3-45
04	9966	0116	0265	0415	0564	0714	0863	1013	1162	1312		4-60
05	463	1461	1611	1760	1910	2059	2209	2358	2508	2657	2807	5-75
06	2956	3105	3255	3404	3554	3703	3853	4002	4151	4301		6-90
07	4450	4600	4749	4898	5048	5197	5347	5496	5645	5795		7-105
08	5944	6093	6243	6392	6541	6691	6840	6989	7139	7288		8-120
09	7437	7586	7736	7885	8034	8184	8333	8482	8631	8781		9-135
2910	8930	9079	9228	9378	9527	9676	9825	9974	0124	0273		
11	464	0422	0571	0720	0870	1019	1168	1317	1466	1615	1765	
12	1914	2063	2212	2361	2510	2659	2808	2958	3107	3256		
13	3405	3554	3703	3852	4001	4150	4299	4448	4597	4746		
14	4895	5044	5193	5343	5492	5641	5790	5939	6088	6237	149	
15	6386	6535	6684	6832	6981	7130	7279	7428	7577	7726		
16	7875	8024	8173	8322	8471	8620	8769	8918	9066	9215		
17	9364	9513	9662	9811	9960	0109	0257	0406	0555	0704		
18	465	0853	1002	1150	1299	1448	1597	1746	1895	2043	2192	
19	2341	2490	2638	2787	2936	3085	3234	3382	3531	3680		
2920	3829	3977	4126	4275	4423	4572	4721	4869	5018	5167		149
21	5316	5464	5613	5762	5910	6059	6208	6356	6505	6653		1-15
22	6802	6951	7099	7248	7497	7545	7694	7842	7991	8140		2-30
23	8288	8437	8585	8734	8882	9031	9179	9328	9477	9625		3-45
24	9774	9922	0071	0219	0368	0516	0665	0813	0962	1110		4-60
25	466	1259	1407	1556	1704	1853	2001	2149	2298	2446	2595	5-74
26	2743	2892	3040	3188	3337	3485	3634	3782	3930	4079		6-89
27	4227	4376	4524	4672	4821	4969	5117	5266	5414	5562		7-104
28	5711	5859	6007	6156	6304	6452	6601	6749	6897	7045		8-119
29	7194	7342	7490	7638	7787	7935	8083	8231	8380	8528		9-134
2930	8676	8824	8973	9121	9269	9417	9565	9714	9862	0010		
31	467	0158	0306	0454	0603	0751	0899	1047	1195	1343	1491	
32	1640	1788	1936	2084	2232	2380	2528	2676	2824	2973		
33	3121	3269	3417	3565	3713	3861	4009	4157	4305	4453		
34	4601	4749	4897	5045	5193	5341	5489	5637	5785	5933	148	
35	6081	6229	6377	6525	6673	6821	6969	7117	7265	7413		
36	7561	7708	7856	8004	8152	8300	8448	8596	8744	8892		
37	9039	9187	9335	9483	9631	9779	9927	0074	0222	0370		
38	468	0518	0666	0813	0961	1109	1257	1405	1552	1700	1848	
39	1996	2144	2291	2439	2587	2735	2882	3030	3178	3326		
2940	3473	3621	3769	3916	4064	4212	4359	4507	4655	4803		148
41	4950	5098	5246	5393	5541	5688	5836	5984	6131	6279		1-15
42	6427	6574	6722	6869	7017	7165	7312	7460	7607	7755		2-30
43	7903	8050	8198	8345	8493	8640	8788	8935	9083	9230		3-44
44	9378	9526	9673	9821	9968	0116	0263	0411	0558	0705		4-59
45	469	0853	1000	1148	1295	1443	1590	1738	1885	2033	2180	5-75
46	2327	2475	2622	2770	2917	3064	3212	3359	3507	3654		6-89
47	3801	3949	4096	4243	4391	4538	4685	4833	4980	5127		7-104
48	5275	5422	5569	5717	5864	6011	6159	6306	6453	6600		8-118
49	6748	6895	7042	7189	7337	7484	7631	7778	7926	8073		9-133
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

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2950	469	8220	8367	8515	8662	8809	8956	9103	9251	9398	9545	147
51	9692	9839	9986	0134	0281	0428	0575	0722	0869	1016	1163	1-15
52	470	1164	1311	1458	1605	1752	1899	2046	2193	2340	2487	2-29
53	2634	2781	2929	3076	3223	3370	3517	3664	3811	3958	4105	3-44
54	4105	4252	4399	4546	4693	4840	4987	5134	5281	5428	5575	4-59
55	5575	5722	5869	6016	6163	6310	6457	6603	6750	6897	7044	5-73
56	7044	7191	7338	7485	7632	7779	7926	8073	8219	8366	8513	6-88
57	8513	8660	8807	8954	9101	9248	9395	9541	9688	9835	9982	7-103
58	9982	0128	0275	0422	0569	0716	0862	1009	1156	1303	1450	8-118
59	471	1450	1596	1743	1890	2037	2183	2330	2477	2624	2770	9-132
2960	2917	3064	3210	3357	3504	3651	3797	3944	4091	4237	4384	
61	4384	4531	4677	4824	4971	5117	5264	5411	5557	5704	5851	
62	5851	5997	6144	6290	6437	6584	6730	6877	7023	7170	7317	
63	7317	7463	7610	7756	7903	8049	8196	8342	8489	8635	8782	
64	8782	8928	9075	9221	9368	9514	9661	9807	9954	0100	0247	
65	472	0247	0393	0540	0686	0833	0979	1126	1272	1419	1565	
66	1711	1858	2004	2151	2297	2443	2590	2736	2883	3029	3176	
67	3175	3322	3468	3615	3761	3907	4054	4200	4346	4493	4639	
68	4639	4785	4932	5078	5224	5370	5517	5663	5809	5956	6102	
69	6102	6248	6394	6541	6687	6833	6979	7126	7272	7418	7565	
2970	7564	7711	7857	8003	8149	8296	8442	8588	8734	8880	9027	146
71	9027	9173	9319	9465	9611	9757	9903	0050	0196	0342	0488	1-15
72	473	0488	0634	0780	0926	1072	1219	1365	1511	1657	1803	2-29
73	1949	2095	2241	2387	2533	2679	2825	2971	3118	3264	3410	3-44
74	3410	3556	3702	3848	3994	4140	4286	4432	4578	4724	4870	4-58
75	4870	5016	5162	5308	5454	5599	5745	5891	6037	6183	6329	5-73
76	6329	6475	6621	6767	6913	7059	7205	7351	7497	7643	7788	6-88
77	7788	7934	8080	8226	8372	8518	8664	8809	8955	9101	9247	7-102
78	9247	9393	9539	9684	9830	9976	0122	0268	0413	0559	0705	8-117
79	474	0705	0851	0997	1142	1288	1434	1580	1725	1871	2017	9-131
2980	2163	2308	2454	2600	2745	2891	3037	3183	3328	3474	3620	
81	3620	3765	3911	4057	4202	4348	4494	4639	4785	4931	5076	
82	5076	5222	5368	5513	5659	5804	5950	6096	6241	6387	6533	
83	6533	6678	6824	6969	7115	7260	7406	7551	7697	7843	7988	
84	7988	8134	8279	8425	8570	8716	8861	9007	9152	9298	9443	
85	9443	9589	9734	9880	0025	0171	0316	0462	0607	0752	0898	
86	475	0898	1043	1189	1334	1480	1625	1771	1916	2061	2207	
87	2352	2498	2643	2788	2934	3079	3224	3370	3515	3660	3806	
88	3806	3951	4097	4242	4387	4533	4678	4823	4968	5114	5259	
89	5259	5404	5550	5695	5840	5985	6131	6276	6421	6567	6712	
2990	6712	6857	7002	7148	7293	7438	7583	7728	7874	8019	8164	145
91	8164	8309	8454	8600	8745	8890	9035	9180	9325	9471	9616	1-14
92	9616	9761	9906	0051	0196	0341	0487	0632	0777	0922	1067	2-29
93	476	1067	1212	1357	1502	1647	1793	1938	2083	2228	2373	3-43
94	2518	2663	2808	2953	3098	3243	3388	3533	3678	3823	3968	4-58
95	3968	4113	4258	4403	4548	4693	4838	4983	5128	5273	5418	5-72
96	5418	5563	5708	5853	5998	6143	6288	6433	6578	6722	6867	6-87
97	6867	7012	7157	7302	7447	7592	7737	7882	8026	8171	8316	7-101
98	8316	8461	8606	8751	8896	9040	9185	9330	9475	9620	9765	8-116
99	9765	9909	0054	0199	0344	0489	0633	0778	0923	1068	1213	9-130
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N. 30000 L.477

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3000	477	1213	1357	1502	1647	1791	1936	2081	2226	2370	2515	145
01		2660	2805	2949	3094	3239	3383	3528	3673	3817	3962	1-14
02		4107	4251	4396	4541	4685	4830	4975	5119	5264	5409	2-29
03		5553	5698	5842	5987	6132	6276	6421	6565	6710	6855	3-43
04		6999	7144	7288	7433	7577	7722	7867	8011	8156	8300	4-58
05		8445	8589	8734	8878	9023	9167	9312	9456	9601	9745	5-72
06		9890	0034	0179	0323	0468	0612	0756	0901	1045	1190	6-87
07	478	1334	1479	1623	1767	1912	2056	2201	2345	2490	2634	7-101
08		2778	2923	3067	3211	3356	3500	3644	3789	3933	4077	8-116
09		4222	4366	4510	4655	4799	4943	5088	5232	5376	5521	9-130
3010		5665	5809	5953	6098	6242	6386	6531	6675	6819	6963	
11		7108	7252	7396	7540	7684	7829	7973	8117	8261	8405	
12		8550	8694	8838	8982	9126	9271	9415	9559	9703	9847	
13		9991	0135	0280	0424	0568	0712	0856	1000	1144	1288	
14	479	1432	1577	1721	1865	2009	2153	2297	2441	2585	2729	
15		2873	3017	3161	3305	3449	3593	3737	3881	4025	4169	144
16		4313	4457	4601	4745	4889	5033	5177	5321	5465	5609	
17		5753	5897	6041	6185	6329	6473	6617	6761	6904	7048	
18		7192	7336	7480	7624	7768	7912	8056	8200	8343	8487	
19		8631	8775	8919	9063	9206	9350	9494	9638	9782	9926	
3020	480	0069	0213	0357	0501	0645	0788	0932	1076	1220	1363	144
21		1507	1651	1795	1938	2082	2226	2370	2513	2657	2801	1-14
22		2945	3088	3232	3376	3519	3663	3807	3950	4094	4238	2-29
23		4381	4525	4669	4812	4956	5100	5243	5387	5531	5674	3-43
24		5818	5961	6105	6249	6392	6536	6679	6823	6967	7110	4-58
25		7254	7397	7541	7684	7828	7972	8115	8259	8402	8546	5-72
26		8689	8833	8976	9120	9263	9407	9550	9694	9837	9981	6-86
27	481	0124	0268	0411	0555	0698	0841	0985	1128	1272	1415	7-101
28		1559	1702	1846	1989	2132	2276	2419	2563	2706	2849	8-115
29		2993	3136	3279	3423	3566	3710	3853	3996	4140	4283	9-130
3030		4426	4570	4713	4856	5000	5143	5286	5429	5573	5716	
31		5859	6003	6146	6289	6432	6576	6719	6862	7005	7149	
32		7292	7435	7578	7722	7865	8008	8151	8294	8438	8581	
33		8724	8867	9010	9154	9297	9440	9583	9726	9869	0013	
34	482	0156	0299	0442	0585	0728	0871	1014	1158	1301	1444	
35		1587	1730	1873	2016	2159	2302	2445	2588	2732	2875	
36		3018	3161	3304	3447	3590	3733	3876	4019	4162	4305	143
37		4448	4591	4734	4877	5020	5163	5306	5449	5592	5735	
38		5878	6021	6164	6306	6449	6592	6735	6878	7021	7164	
39		7307	7450	7593	7736	7879	8021	8164	8307	8450	8593	
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41	483	0164	0307	0450	0593	0735	0878	1021	1164	1307	1449	1-14
42		1592	1735	1878	2020	2163	2306	2449	2591	2734	2877	2-29
43		3020	3162	3305	3448	3590	3733	3876	4018	4161	4304	3-43
44		4446	4589	4732	4874	5017	5160	5302	5445	5588	5730	4-57
45		5873	6016	6158	6301	6443	6586	6729	6871	7014	7156	5-71
46		7299	7442	7584	7727	7869	8012	8154	8297	8439	8582	6-86
47		8725	8867	9010	9152	9295	9437	9580	9722	9865	0007	7-100
48	484	0150	0292	0435	0577	0719	0862	1004	1147	1289	1432	8-114
49		1574	1717	1859	2001	2144	2286	2429	2571	2714	2856	9-129
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51	4422	4564	4707	4849	4991	5134	5276	5418	5561	5703	5845	1-14
52	5845	5988	6130	6272	6414	6557	6699	6841	6983	7126	7268	2-28
53	7268	7410	7552	7695	7837	7979	8121	8264	8406	8548	8690	3-43
54	8690	8832	8975	9117	9259	9401	9543	9686	9828	9970	10012	4-57
55	485	0112	0254	0396	0539	0681	0823	0965	1107	1249	1391	5-71
56	1533	1676	1818	1960	2102	2244	2386	2528	2670	2812	2954	6-85
57	2954	3096	3238	3381	3523	3665	3807	3949	4091	4233	4375	7-99
58	4375	4517	4659	4801	4943	5085	5227	5369	5511	5653	5795	142 8-114
59	5795	5937	6079	6221	6363	6505	6646	6788	6930	7072	7214	9-128
3060	7214	7356	7498	7640	7782	7924	8066	8208	8349	8491	8633	
61	8633	8775	8917	9059	9201	9343	9484	9626	9768	9910	10052	
62	486	0052	0194	0335	0477	0619	0761	0903	1045	1186	1328	
63	1470	1612	1753	1895	2037	2179	2321	2462	2604	2746	2888	
64	2888	3029	3171	3313	3454	3596	3738	3880	4021	4163	4305	
65	4305	4446	4588	4730	4871	5013	5155	5296	5438	5580	5722	
66	5722	5863	6005	6146	6288	6430	6571	6713	6854	6996	7138	
67	7138	7279	7421	7562	7704	7846	7987	8129	8270	8412	8554	
68	8554	8695	8837	8978	9120	9261	9403	9544	9686	9827	9969	
69	9969	0110	0252	0393	0535	0676	0818	0959	1101	1242	1384	
3070	487	1384	1525	1667	1808	1950	2091	2232	2374	2515	2657	141
71	2798	2940	3081	3222	3364	3505	3647	3788	3929	4071	4212	1-14
72	4212	4353	4495	4636	4778	4919	5060	5202	5343	5484	5626	2-28
73	5626	5767	5908	6050	6191	6332	6473	6615	6756	6897	7039	3-42
74	7039	7180	7321	7462	7604	7745	7886	8027	8169	8310	8451	4-56
75	8451	8592	8734	8875	9016	9157	9298	9440	9581	9722	9863	5-70
76	9863	0004	0146	0287	0428	0569	0710	0851	0993	1134	1275	6-85
77	488	1275	1416	1557	1698	1839	1981	2122	2263	2404	2545	7-99
78	2686	2827	2968	3109	3250	3392	3533	3674	3815	3956	4097	8-113
79	4097	4238	4379	4520	4661	4802	4943	5084	5225	5366	5507	141 9-127
3080	5507	5648	5789	5930	6071	6212	6353	6494	6635	6776	6917	
81	6917	7058	7199	7340	7481	7622	7763	7904	8045	8186	8327	
82	8327	8468	8609	8749	8890	9031	9172	9313	9454	9594	9735	
83	9735	9876	0017	0158	0299	0439	0580	0721	0862	1003	1144	
84	489	1144	1284	1425	1566	1707	1848	1988	2129	2270	2411	
85	2552	2692	2833	2974	3115	3255	3396	3537	3678	3818	3959	
86	3959	4100	4241	4381	4522	4663	4803	4944	5085	5226	5366	
87	5366	5507	5648	5788	5929	6070	6210	6351	6492	6632	6773	
88	6773	6914	7054	7195	7335	7476	7617	7757	7898	8038	8179	
89	8179	8320	8460	8601	8741	8882	9023	9163	9304	9444	9585	
3090	9585	9725	9866	0006	0147	0287	0428	0568	0709	0849	0990	140
91	490	0990	1131	1271	1411	1552	1692	1833	1973	2114	2254	1-14
92	2395	2535	2676	2816	2957	3097	3237	3378	3518	3659	3799	2-28
93	3799	3940	4080	4220	4361	4501	4642	4782	4922	5063	5203	3-42
94	5203	5343	5484	5624	5765	5905	6045	6185	6326	6466	6607	4-56
95	6607	6747	6887	7027	7168	7308	7448	7589	7729	7869	8010	5-70
96	8010	8150	8290	8430	8571	8711	8851	8991	9131	9272	9412	6-84
97	9412	9552	9693	9833	9973	0113	0253	0394	0534	0674	0814	7-98
98	491	0814	0954	1094	1235	1375	1515	1655	1795	1935	2076	8-112
99	2216	2356	2496	2636	2776	2916	3056	3197	3337	3477	3617	9-126
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01		5018	5158	5298	5438	5578	5718	5858	5998	6138	6278	1-14
02		6418	6558	6698	6838	6978	7118	7258	7398	7538	7678	2-28
03		7818	7958	8098	8238	8378	8517	8657	8797	8937	9077	3-42
04		9217	9357	9497	9637	9777	9917	0056	0196	0336	0476	4-56
05	492	0616	0756	0896	1036	1175	1315	1455	1595	1735	1875	5-70
06		2015	2154	2294	2434	2574	2714	2853	2993	3133	3273	6-84
07		3413	3552	3692	3832	3972	4111	4251	4391	4531	4670	7-98
08		4810	4950	5090	5229	5369	5509	5648	5788	5928	6067	8-112
09		6207	6347	6487	6626	6766	6906	7045	7185	7325	7464	9-126
3110		7604	7743	7883	8023	8162	8302	8442	8581	8721	8860	
11		9000	9140	9279	9419	9558	9698	9838	9977	0117	0256	
12	493	0396	0535	0675	0814	0954	1094	1233	1373	1512	1652	
13		1791	1931	2070	2210	2349	2489	2628	2768	2907	3047	
14		3186	3325	3465	3604	3744	3883	4023	4162	4302	4441	
15		4581	4720	4859	4999	5138	5278	5417	5556	5696	5835	
16		5974	6114	6253	6393	6532	6671	6811	6950	7089	7229	
17		7368	7507	7647	7786	7925	8065	8204	8343	8482	8622	
18		8761	8900	9040	9179	9318	9457	9597	9736	9875	0014	
19	494	0154	0293	0432	0571	0711	0850	0989	1128	1267	1407	
3120		1546	1685	1824	1963	2103	2242	2381	2520	2659	2798	
21		2938	3077	3216	3355	3494	3633	3772	3912	4051	4190	139
22		4329	4468	4607	4746	4885	5024	5164	5303	5442	5581	1-14
23		5720	5859	5998	6137	6276	6415	6554	6693	6832	6971	2-28
24		7110	7249	7388	7527	7666	7805	7944	8083	8222	8361	3-42
25		8500	8639	8778	8917	9056	9195	9334	9473	9612	9751	4-56
26		9890	0029	0168	0308	0445	0584	0723	0862	1001	1140	5-69
27	495	1279	1418	1557	1695	1834	1973	2112	2251	2390	2529	6-83
28		2667	2806	2945	3084	3223	3362	3500	3639	3778	3917	7-97
29		4056	4194	4333	4472	4611	4750	4888	5027	5166	5305	8-111
3130		5443	5582	5721	5860	5998	6137	6276	6415	6553	6692	9-125
31		6831	6969	7108	7247	7385	7524	7663	7801	7940	8079	
32		8218	8356	8495	8633	8772	8911	9049	9188	9327	9465	
33		9604	9743	9881	0020	0158	0297	0436	0574	0713	0851	
34	496	0990	1128	1267	1406	1544	1683	1821	1960	2098	2237	
35		2375	2514	2652	2791	2929	3068	3207	3345	3484	3622	
36		3761	3899	4037	4176	4314	4453	4591	4730	4868	5007	
37		5145	5284	5422	5560	5699	5837	5976	6114	6253	6391	
38		6529	6668	6806	6945	7083	7221	7360	7498	7636	7775	
39		7913	8051	8190	8328	8466	8605	8743	8881	9020	9158	
3140		9296	9435	9573	9711	9850	9988	0126	0264	0403	0541	138
41	497	0679	0818	0956	1094	1232	1371	1509	1647	1785	1924	1-14
42		2062	2200	2338	2476	2615	2753	2891	3029	3167	3306	2-28
43		3444	3582	3720	3858	3996	4135	4273	4411	4549	4687	3-41
44		4825	4963	5102	5240	5378	5516	5654	5792	5930	6068	4-55
45		6206	6345	6483	6621	6759	6897	7035	7173	7311	7449	5-69
46		7587	7725	7863	8001	8139	8277	8415	8553	8691	8829	6-83
47		8967	9105	9243	9381	9519	9657	9795	9933	0071	0209	7-97
48	498	0347	0485	0623	0761	0899	1037	1175	1313	1451	1589	8-110
49		1727	1864	2002	2140	2278	2416	2554	2692	2830	2968	9-124
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N. 31500 L.498

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51		4484	4622	4760	4897	5035	5173	5311	5449	5586	5724	1-14
52		5862	6000	6138	6275	6413	6551	6689	6826	6964	7102	2-27
53		7240	7377	7515	7653	7791	7928	8066	8204	8341	8479	3-41
54		8617	8755	8892	9030	9168	9305	9443	9581	9718	9856	4-55
55		9994	0131	0269	0407	0544	0682	0819	0957	1095	1232	5-68
56	499	1370	1508	1645	1783	1920	2058	2195	2333	2471	2608	6-82
57		2746	2883	3021	3158	3296	3434	3571	3709	3846	3984	7-96
58		4121	4259	4396	4534	4671	4809	4946	5084	5221	5359	8-110
59		5496	5634	5771	5909	6046	6184	6321	6458	6596	6733	9-123
60		6871	7008	7146	7283	7420	7558	7695	7833	7970	8108	
61		8245	8382	8520	8657	8794	8932	9069	9207	9344	9481	
62		9619	9756	9893	0031	0168	0305	0443	0580	0717	0855	
63	500	0992	1129	1266	1404	1541	1678	1816	1953	2090	2227	
64		2365	2502	2639	2776	2914	3051	3188	3325	3463	3600	
65		3737	3874	4012	4149	4286	4423	4560	4698	4835	4972	
66		5109	5246	5383	5521	5658	5795	5932	6069	6206	6343	
67		6481	6618	6755	6892	7029	7166	7303	7440	7577	7715	
68		7852	7989	8126	8263	8400	8537	8674	8811	8948	9085	
69		9222	9359	9496	9633	9770	9908	0045	0182	0319	0456	137
70	3170	501	0593	0730	0867	1004	1141	1278	1415	1551	1688	136
71		1962	2099	2236	2373	2510	2647	2784	2921	3058	3195	1-14
72		3332	3469	3606	3742	3879	4016	4153	4290	4427	4564	2-27
73		4701	4838	4974	5111	5248	5385	5522	5659	5796	5933	3-41
74		6069	6206	6343	6480	6616	6753	6890	7027	7164	7300	4-54
75		7437	7574	7711	7848	7984	8121	8258	8395	8531	8668	5-68
76		8805	8942	9078	9215	9352	9489	9625	9762	9899	0035	6-82
77	502	0172	0309	0445	0582	0719	0856	0992	1129	1266	1402	7-95
78		1539	1676	1812	1949	2085	2222	2359	2495	2632	2769	8-109
79		2905	3042	3178	3315	3452	3588	3725	3861	3998	4135	9-122
80	3180		4271	4408	4544	4681	4817	4954	5090	5227	5364	
81		5637	5773	5910	6046	6183	6319	6456	6592	6729	6865	
82		7002	7138	7275	7411	7548	7684	7821	7957	8093	8230	
83		8366	8503	8639	8776	8912	9048	9185	9321	9458	9594	
84		9731	9867	0003	0140	0276	0412	0549	0685	0822	0958	
85	503	1094	1231	1367	1503	1640	1776	1912	2049	2185	2321	
86		2458	2594	2730	2867	3003	3139	3275	3412	3548	3684	
87		3821	3957	4093	4229	4366	4502	4638	4774	4911	5047	
88		5183	5319	5456	5592	5728	5864	6000	6137	6273	6409	
89		6545	6681	6818	6954	7090	7226	7362	7498	7634	7771	
90	3190		7907	8043	8179	8315	8451	8587	8724	8860	8996	135
91		9268	9404	9540	9676	9812	9948	0085	0221	0357	0493	1-13
92	504	0629	0765	0901	1037	1173	1309	1445	1581	1717	1853	2-27
93		1989	2125	2261	2397	2533	2669	2805	2941	3077	3213	3-40
94		3349	3485	3621	3757	3893	4029	4165	4301	4437	4573	4-54
95		4709	4845	4980	5116	5252	5388	5524	5660	5796	5932	5-67
96		6068	6204	6339	6475	6611	6747	6883	7019	7155	7290	6-81
97		7425	7562	7698	7834	7970	8105	8241	8377	8513	8649	7-94
98		8785	8920	9056	9192	9328	9464	9599	9735	9871	0007	8-108
99	505	0142	0278	0414	0550	0685	0821	0957	1093	1228	1364	9-121
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01	2857	2992	3128	3264	3399	3535	3671	3806	3942	4078		1-14
02	4213	4349	4484	4620	4756	4891	5027	5163	5298	5434		2-27
03	5569	5705	5841	5976	6112	6247	6383	6518	6654	6789		3-41
04	6925	7061	7196	7332	7467	7603	7738	7874	8009	8145		4-54
05	8280	8416	8551	8687	8822	8958	9093	9229	9364	9500		5-68
06	9635	9771	9906	0042	0177	0312	0448	0583	0719	0854		6-82
07	506	0990	1125	1260	1396	1531	1667	1802	1937	2073		7-95
08	2344	2479	2614	2750	2885	3020	3156	3291	3426	3562		8-109
09	3697	3832	3968	4103	4238	4374	4509	4644	4780	4915		9-122
3210	5050	5186	5321	5456	5591	5727	5862	5997	6132	6268		
11	6403	6538	6674	6809	6944	7079	7214	7350	7485	7620		
12	7755	7891	8026	8161	8296	8431	8567	8702	8837	8972		
13	9107	9242	9378	9513	9648	9783	9918	0053	0188	0324		
14	507	0459	0594	0729	0864	0999	1134	1269	1404	1540		
15	1810	1945	2080	2215	2350	2485	2620	2755	2890	3025		
16	3160	3295	3430	3565	3700	3836	3971	4106	4241	4376	135	
17	4511	4646	4781	4916	5051	5186	5320	5455	5590	5725		
18	5860	5995	6130	6265	6400	6535	6670	6805	6940	7075		
19	7210	7345	7480	7614	7749	7884	8019	8154	8289	8424		
3220	8559	8694	8828	8963	9098	9233	9368	9503	9638	9772		135
21	9907	0042	0177	0312	0446	0581	0716	0851	0986	1121		1-13
22	508	1255	1390	1525	1660	1794	1929	2064	2199	2334		2-27
23	2603	2738	2873	3007	3142	3277	3411	3546	3681	3816		3-40
24	3950	4085	4220	4354	4489	4624	4758	4893	5028	5162		4-54
25	5297	5432	5566	5701	5836	5970	6105	6240	6374	6509		5-67
26	6644	6778	6913	7047	7182	7317	7451	7586	7720	7855		6-81
27	7990	8124	8259	8393	8528	8662	8797	8932	9066	9201		7-94
28	9335	9470	9604	9739	9873	0008	0142	0277	0411	0546		8-108
29	509	0680	0815	0949	1084	1218	1353	1487	1622	1756		9-121
3230	2025	2160	2294	2429	2563	2697	2832	2966	3101	3235		
31	3370	3504	3638	3773	3907	4042	4176	4310	4445	4579		
32	4714	4848	4982	5117	5251	5385	5520	5654	5788	5923		
33	6057	6191	6326	6460	6594	6729	6863	6997	7132	7266		
34	7400	7534	7669	7803	7937	8072	8206	8340	8474	8609		
35	8743	8877	9011	9146	9280	9414	9548	9682	9817	9951		
36	510	0085	0219	0353	0488	0622	0756	0890	1024	1159		
37	1427	1561	1695	1829	1964	2098	2232	2366	2500	2634		
38	2768	2903	3037	3171	3305	3439	3573	3707	3841	3975		
39	4109	4243	4378	4512	4646	4780	4914	5048	5182	5316		
3240	5450	5584	5718	5852	5986	6120	6254	6388	6522	6656	134	134
41	6790	6924	7058	7192	7326	7460	7594	7728	7862	7996		1-13
42	8130	8264	8398	8532	8666	8800	8934	9068	9202	9335		2-27
43	9469	9603	9737	9871	0005	0139	0273	0407	0541	0674		3-40
44	511	0808	0942	1076	1210	1344	1478	1612	1745	1879		4-54
45	2147	2281	2415	2548	2682	2816	2950	3084	3217	3351		5-67
46	3485	3619	3753	3886	4020	4154	4288	4422	4555	4689		6-80
47	4823	4957	5090	5224	5358	5491	5625	5759	5893	6026		7-94
48	6160	6294	6428	6561	6695	6829	6962	7096	7230	7363		8-107
49	7497	7631	7764	7898	8032	8165	8299	8433	8566	8700		9-121
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 32500 L.511

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
3250	5118834	8967	9101	9234	9368	9502	9635	9769	9902	0036		133
51	5120170	0303	0437	0570	0704	0837	0971	1105	1238	1372		1-13
52	1505	1639	1772	1906	2039	2173	2306	2440	2574	2707		2-27
53	2841	2974	3108	3241	3375	3508	3641	3775	3908	4042		3-40
54	4175	4309	4442	4576	4709	4843	4976	5110	5243	5376		4-53
55	5510	5643	5777	5910	6044	6177	6310	6444	6577	6711		5-66
56	6844	6977	7111	7244	7377	7511	7644	7777	7911	8044		6-80
57	8178	8311	8444	8578	8711	8844	8978	9111	9244	9377		7-93
58	9511	9644	9777	9911	0044	0177	0310	0444	0577	0710		8-106
59	5130844	0977	1110	1243	1377	1510	1643	1776	1910	2043		9-120
3260	2176	2309	2442	2576	2709	2842	2975	3108	3242	3375		
61	3508	3641	3774	3907	4041	4174	4307	4440	4573	4706		
62	4840	4973	5106	5239	5372	5505	5638	5771	5904	6038		
63	6171	6304	6437	6570	6703	6836	6969	7102	7235	7368		
64	7502	7635	7768	7901	8034	8167	8300	8433	8566	8699		
65	8832	8965	9098	9231	9364	9497	9630	9763	9896	0029	133	
66	5140162	0295	0428	0561	0694	0827	0960	1092	1225	1358		
67	1491	1624	1757	1890	2023	2156	2289	2422	2555	2688		
68	2820	2953	3086	3219	3352	3485	3618	3751	3883	4016		
69	4149	4282	4415	4548	4681	4813	4946	5079	5212	5345		
3270	5478	5610	5743	5876	6009	6141	6274	6407	6540	6673		
71	6805	6938	7071	7204	7336	7469	7602	7735	7867	8000		132
72	8133	8266	8398	8531	8664	8797	8929	9062	9195	9327		1-13
73	9460	9593	9725	9858	9991	0123	0256	0389	0521	0654		2-26
74	5150787	0919	1052	1185	1317	1450	1583	1715	1848	1980		3-40
75	2113	2246	2378	2511	2643	2776	2909	3041	3174	3306		4-53
76	3439	3571	3704	3837	3969	4102	4234	4367	4499	4632		5-66
77	4764	4897	5029	5162	5294	5427	5559	5692	5824	5957		6-79
78	6089	6222	6354	6487	6619	6752	6884	7017	7149	7282		7-92
79	7414	7547	7679	7811	7944	8076	8209	8341	8474	8606		8-106
3280	8738	8871	9003	9136	9268	9400	9533	9665	9798	9930		9-119
81	5160062	0195	0327	0459	0592	0724	0856	0989	1121	1253		
82	1386	1518	1650	1783	1915	2047	2180	2312	2444	2576		
83	2709	2841	2973	3106	3238	3370	3502	3635	3767	3899		
84	4031	4164	4296	4428	4560	4693	4825	4957	5089	5221		
85	5354	5486	5618	5750	5882	6015	6147	6279	6411	6543		
86	6676	6808	6940	7072	7204	7336	7468	7601	7733	7865		
87	7997	8129	8261	8393	8525	8658	8790	8922	9054	9186		
88	9318	9450	9582	9714	9846	9978	0110	0243	0375	0507		
89	5170639	0771	0903	1035	1167	1299	1431	1563	1695	1827	132	
3290	1959	2091	2223	2355	2487	2619	2751	2883	3015	3147		
91	3279	3411	3543	3675	3807	3939	4070	4202	4334	4466		131
92	4598	4730	4862	4994	5126	5258	5390	5522	5653	5785		1-13
93	5917	6049	6181	6313	6445	6577	6708	6840	6972	7104		2-26
94	7236	7368	7500	7631	7763	7895	8027	8159	8291	8422		3-39
95	8554	8686	8818	8950	9081	9213	9345	9477	9608	9740		4-52
96	9872	0004	0136	0267	0399	0531	0663	0794	0926	1058		5-65
97	5181189	1321	1453	1585	1716	1848	1980	2111	2243	2375		6-79
98	2507	2638	2770	2901	3033	3165	3296	3428	3560	3691		7-92
99	3823	3955	4086	4218	4350	4481	4613	4745	4876	5008		8-105
												9-118
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 33000 L. 518

Num	0	1	2	3	4	5	6	7	8	9	D	Prs.
3300	518	5139	5271	5403	5534	5666	5797	5929	6060	6192	6324	132
01	6455	6587	6718	6850	6981	7113	7245	7376	7508	7639		1-13
02	7771	7902	8034	8165	8297	8428	8560	8691	8823	8954		2-26
03	9086	9217	9349	9480	9612	9743	9875	0006	0137	0269		3-40
04	519	0400	0532	0663	0795	0926	1058	1189	1320	1452	1583	4-53
05	1715	1846	1977	2109	2240	2372	2503	2634	2766	2897		5-66
06	3028	3160	3291	3423	3554	3685	3817	3948	4079	4211		6-79
07	4342	4474	4605	4736	4867	4998	5130	5261	5392	5524		7-92
08	5655	5786	5918	6049	6180	6311	6443	6574	6705	6836		8-106
09	6968	7099	7230	7361	7493	7624	7755	7886	8017	8149		9-119
3310	8280	8411	8542	8673	8805	8936	9067	9198	9329	9461		
11	9592	9723	9854	9985	0116	0248	0379	0510	0641	0772		
12	520	0903	1034	1165	1297	1428	1559	1690	1821	1952	2083	
13	2214	2345	2476	2608	2739	2870	3001	3132	3263	3394		
14	3525	3656	3787	3918	4049	4180	4311	4442	4573	4704		
15	4835	4966	5097	5228	5359	5490	5621	5752	5883	6014	132	
16	6145	6276	6407	6538	6669	6800	6931	7062	7193	7324		
17	7455	7586	7717	7847	7978	8109	8240	8371	8502	8633		
18	8764	8895	9026	9156	9287	9418	9549	9680	9811	9942		
19	521	0073	0203	0334	0465	0596	0727	0858	0988	1119	1250	
3320	1381	1512	1642	1773	1904	2035	2166	2296	2427	2558		132
21	2689	2819	2950	3081	3212	3343	3473	3604	3735	3865		1-13
22	3996	4127	4258	4388	4519	4650	4781	4911	5042	5173		2-26
23	5303	5434	5565	5695	5826	5957	6087	6218	6349	6479		3-39
24	6610	6741	6871	7002	7133	7263	7394	7525	7655	7786		4-52
25	7916	8047	8178	8308	8439	8569	8700	8831	8961	9092		5-65
26	9222	9353	9484	9614	9745	9875	0006	0136	0267	0397		6-79
27	522	0528	0658	0789	0920	1050	1181	1311	1442	1572	1703	7-92
28	1833	1964	2094	2225	2355	2486	2616	2747	2877	3007		8-105
29	3138	3268	3399	3529	3660	3790	3921	4051	4181	4312		9-118
3330	4442	4573	4703	4834	4964	5094	5225	5355	5486	5616		
31	5746	5877	6007	6137	6268	6398	6528	6659	6789	6920		
32	7050	7180	7311	7441	7571	7702	7832	7962	8092	8223		
33	8353	8483	8614	8744	8874	9005	9135	9265	9395	9526		
34	9656	9786	9916	0047	0177	0307	0437	0568	0698	0828		
35	523	0958	1089	1219	1349	1479	1609	1740	1870	2000	2130	
36	2260	2391	2521	2651	2781	2911	3041	3172	3302	3432		
37	3562	3692	3822	3952	4083	4213	4343	4473	4603	4733		
38	4863	4993	5123	5254	5384	5514	5644	5774	5904	6034		
39	6164	6294	6424	6554	6684	6814	6944	7075	7205	7335	130	
3340	7465	7595	7725	7855	7985	8115	8245	8375	8505	8635		130
41	8765	8895	9025	9155	9285	9415	9545	9675	9805	9935		1-13
42	524	0064	0194	0324	0454	0584	0714	0844	0974	1104	1234	2-26
43	1364	1494	1624	1753	1883	2013	2143	2273	2403	2533		3-39
44	2663	2793	2922	3052	3182	3312	3442	3572	3701	3831		4-52
45	3961	4091	4221	4351	4480	4610	4740	4870	5000	5130		5-65
46	5259	5389	5519	5649	5778	5908	6038	6168	6298	6427		6-78
47	6557	6687	6817	6946	7076	7206	7336	7465	7595	7725		7-91
48	7854	7984	8114	8244	8373	8503	8633	8762	8892	9022		8-104
49	9151	9281	9411	9540	9670	9800	9929	0059	0189	0318		9-117
Num	0	1	2	3	4	5	6	7	8	9	D	Prs.

Num	0	1	2	3	4	5	6	7	8	9	D Pts.
3350	525	0448	0578	0707	0837	0967	1096	1226	1355	1485	1615
51		1744	1874	2003	2133	2263	2392	2522	2651	2781	2910
52		3040	3170	3299	3429	3558	3688	3817	3947	4076	4206
53		4336	4465	4595	4724	4854	4983	5113	5242	5372	5501
54		5631	5760	5889	6019	6148	6278	6407	6537	6666	6796
55		6925	7055	7184	7314	7443	7572	7702	7831	7961	8090
56		8220	8349	8478	8608	8737	8866	8996	9125	9255	9384
57		9513	9643	9772	9901	0031	0160	0290	0419	0548	0678
58	526	0807	0936	1066	1195	1324	1453	1583	1712	1841	1971
59		2100	2229	2359	2488	2617	2746	2876	3005	3134	3263
3360		3393	3522	3651	3780	3910	4039	4168	4297	4427	4556
61		4685	4814	4943	5073	5202	5331	5460	5589	5719	5848
62		5977	6106	6235	6365	6494	6623	6752	6881	7010	7139
63		7269	7398	7527	7656	7785	7914	8043	8173	8302	8431
64		8560	8689	8818	8947	9076	9205	9334	9463	9593	9722
65		9851	9980	0109	0238	0367	0496	0625	0754	0883	1012
66	527	1141	1270	1399	1528	1657	1786	1915	2044	2173	2302
67		2431	2560	2689	2818	2947	3076	3205	3334	3463	3592
68		3721	3850	3979	4108	4237	4365	4494	4623	4752	4881
69		5010	5139	5268	5397	5526	5655	5783	5912	6041	6170
3370		6299	6428	6557	6686	6814	6943	7072	7201	7330	7459
71		7588	7716	7845	7974	8103	8232	8360	8489	8618	8747
72		8876	9004	9133	9262	9391	9520	9648	9777	9906	0035
73	528	0163	0292	0421	0550	0678	0807	0936	1065	1193	1322
74		1451	1579	1708	1837	1966	2094	2223	2352	2480	2609
75		2738	2866	2995	3124	3252	3381	3510	3638	3767	3896
76		4024	4153	4282	4410	4539	4667	4796	4925	5053	5182
77		5311	5439	5568	5696	5825	5954	6082	6211	6339	6468
78		6596	6725	6854	6982	7111	7239	7368	7496	7625	7753
79		7882	8010	8139	8267	8396	8524	8653	8781	8910	9038
3380		9167	9295	9424	9552	9681	9809	9938	0066	0195	0323
81	529	0452	0580	0709	0837	0965	1094	1222	1351	1479	1608
82		1736	1864	1993	2121	2250	2378	2506	2635	2763	2892
83		3020	3148	3277	3405	3533	3662	3790	3918	4046	4175
84		4304	4432	4560	4688	4817	4945	5073	5202	5330	5458
85		5587	5715	5843	5972	6100	6228	6356	6485	6613	6741
86		6870	6998	7126	7254	7383	7511	7639	7767	7895	8024
87		8152	8280	8408	8537	8665	8793	8921	9049	9178	9306
88		9434	9562	9690	9818	9947	0075	0203	0331	0459	0587
89	530	0716	0844	0972	1100	1228	1356	1484	1613	1741	1869
3390		1997	2125	2253	2381	2509	2637	2766	2894	3022	3150
91		3278	3406	3534	3662	3790	3918	4046	4174	4302	4430
92		4558	4686	4814	4942	5070	5199	5327	5455	5583	5711
93		5839	5967	6095	6223	6351	6478	6606	6734	6862	6990
94		7118	7246	7374	7502	7630	7758	7886	8014	8142	8270
95		8398	8526	8654	8781	8909	9037	9165	9293	9421	9549
96		9677	9805	9933	0060	0188	0316	0444	0572	0700	0828
97	531	0955	1083	1211	1339	1467	1595	1722	1850	1978	2106
98		2234	2361	2489	2617	2745	2873	3000	3128	3256	3384
99		3512	3639	3767	3895	4023	4150	4278	4406	4534	4661
Num	0	1	2	3	4	5	6	7	8	9	D Pro

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127

Num	0	1	2	3	4	5	6	7	8	9	D	Prs.
3400	531	4789	4917	5045	5172	5300	5428	5555	5683	5811	5939	128
01		6066	6194	6322	6449	6577	6705	6832	6960	7088	7215	1-13
02		7343	7471	7598	7726	7854	7981	8109	8237	8364	8492	2-26
03		8619	8747	8875	9002	9130	9257	9385	9513	9640	9768	3-38
04		9896	0023	0151	0278	0406	0533	0661	0788	0916	1044	4-51
05	532	1171	1299	1426	1554	1681	1809	1936	2064	2191	2319	5-64
06		2446	2574	2701	2829	2956	3084	3211	3339	3466	3594	6-77
07		3721	3849	3976	4104	4231	4359	4486	4613	4741	4868	7-90
08		4996	5123	5251	5378	5506	5633	5760	5888	6015	6143	8-102
09		6270	6397	6525	6652	6780	6907	7034	7162	7289	7416	9-115
3410		7544	7671	7798	7926	8053	8180	8308	8435	8562	8690	
11		8817	8944	9072	9199	9326	9454	9581	9708	9836	9963	
12	533	0090	0217	0345	0472	0599	0727	0854	0981	1108	1236	
13		1363	1490	1617	1745	1872	1999	2126	2253	2381	2508	
14		2635	2762	2890	3017	3144	3271	3398	3525	3653	3780	
15		3907	4034	4161	4289	4416	4543	4670	4797	4924	5051	
16		5179	5306	5433	5560	5687	5814	5941	6068	6196	6323	
17		6450	6577	6704	6831	6958	7085	7212	7339	7466	7593	
18		7721	7848	7975	8102	8229	8356	8483	8610	8737	8864	
19		8991	9118	9245	9372	9499	9626	9753	9880	0007	0134	127
3420	534	0261	0388	0515	0642	0769	0896	1023	1150	1277	1404	127
21		1531	1658	1785	1912	2038	2165	2292	2419	2546	2673	1-13
22		2800	2927	3054	3181	3308	3435	3561	3688	3815	3942	2-25
23		4069	4196	4323	4450	4576	4703	4830	4957	5084	5211	3-38
24		5338	5464	5591	5718	5845	5972	6098	6225	6352	6479	4-51
25		6606	6733	6859	6986	7113	7240	7366	7493	7620	7757	5-63
26		7874	8000	8127	8254	8381	8507	8634	8761	8888	9014	6-76
27		9141	9268	9394	9521	9648	9775	9901	0028	0155	0281	7-89
28	535	0408	0535	0661	0788	0915	1041	1168	1295	1421	1548	8-102
29		1675	1801	1928	2055	2181	2308	2435	2561	2688	2815	9-114
3430		2941	3068	3194	3321	3448	3574	3701	3827	3954	4081	
31		4207	4334	4460	4587	4713	4840	4967	5093	5220	5346	
32		5473	5599	5726	5852	5979	6105	6232	6358	6485	6611	
33		6738	6864	6991	7117	7244	7370	7497	7623	7750	7876	
34		8003	8129	8256	8382	8509	8635	8762	8888	9014	9141	
35		9267	9394	9520	9647	9773	9899	0026	0152	0279	0405	
36	536	0532	0658	0784	0911	1037	1163	1290	1416	1543	1669	
37		1795	1922	2048	2174	2301	2427	2553	2680	2806	2932	
38		3059	3185	3311	3438	3564	3690	3817	3943	4069	4195	
39		4322	4448	4574	4701	4827	4953	5079	5206	5332	5458	
3440		5584	5711	5837	5963	6089	6216	6342	6468	6594	6720	126
41		6847	6973	7099	7225	7352	7478	7604	7730	7856	7982	1-13
42		8109	8235	8361	8487	8613	8739	8866	8992	9118	9244	2-25
43		9370	9496	9622	9749	9875	0001	0127	0253	0379	0505	3-38
44	537	0631	0757	0884	1010	1136	1262	1388	1514	1640	1766	4-50
45		1892	2018	2144	2270	2396	2522	2649	2775	2901	3027	5-63
46		3153	3279	3405	3531	3657	3783	3909	4035	4161	4287	6-76
47		4413	4539	4665	4791	4917	5043	5169	5295	5421	5547	7-88
48		5673	5798	5924	6050	6176	6302	6428	6554	6680	6806	8-101
49		6932	7058	7184	7310	7436	7561	7687	7813	7939	8065	9-113
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	O	I	2	3	4	5	6	7	8	9	D	Pts.
3450	537	8191	8317	8443	8569	8694	8820	8946	9072	9198	9324	126
51	9450	9575	9701	9827	9953	0079	0205	0330	0456	0582	1-13	
52	538	0708	0834	0959	1085	1211	1337	1463	1588	1714	1840	2-25
53	1966	2091	2217	2343	2469	2595	2720	2846	2972	3097	3-38	
54	3223	3349	3475	3600	3726	3852	3978	4103	4229	4355	4-50	
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57	6994	7119	7245	7371	7496	7622	7747	7873	7999	8124	7-88	
58	8250	8375	8501	8627	8752	8878	9003	9129	9254	9380	8-101	
59	9506	9631	9757	9882	0008	0133	0259	0384	0510	0635	9-113	
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61	2016	2141	2267	2392	2518	2643	2769	2894	3020	3145		
62	3271	3396	3521	3647	3772	3898	4023	4149	4274	4399		
63	4525	4650	4776	4901	5026	5152	5277	5403	5528	5653		
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65	7032	7158	7283	7408	7534	7659	7784	7910	8035	8160		
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68	540	0791	0916	1041	1166	1292	1417	1542	1667	1793	1918	
69	2043	2168	2293	2418	2544	2669	2794	2919	3044	3169		
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71	4546	4671	4796	4921	5046	5172	5297	5422	5547	5672	1-12	
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85	2028	2152	2277	2402	2526	2651	2775	2900	3025	3149		
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87	4519	4644	4769	4893	5018	5142	5267	5391	5516	5640		
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89	7010	7134	7259	7383	7508	7632	7756	7881	8005	8130		
3490	8254	8379	8503	8628	8752	8876	9001	9125	9250	9374	124	
91	9498	9623	9747	9872	9996	0120	0245	0369	0494	0618	1-12	
92	543	0742	0867	0991	1115	1240	1364	1488	1613	1737	1861	2-25
93	1986	2110	2234	2359	2483	2607	2732	2856	2980	3105	3-37	
94	3229	3353	3478	3602	3726	3850	3975	4099	4223	4347	4-50	
95	4472	4596	4720	4845	4969	5093	5217	5342	5466	5590	5-62	
96	5714	5838	5963	6087	6211	6335	6459	6584	6708	6832	6-74	
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98	8198	8322	8446	8570	8695	8819	8943	9067	9191	9315	8-99	
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06	8119	8243	8367	8491	8615	8738	8862	8986	9110	9234		6-74
07	9358	9481	9605	9729	9853	9977	0101	0224	0348	0472		7-87
08	545 0596	0720	0843	0967	1091	1215	1339	1462	1586	1710		8-99
09	1834	1957	2081	2205	2329	2452	2576	2700	2824	2947		9-112
3510	3071	3195	3319	3442	3566	3690	3813	3937	4061	4185		
11	4308	4432	4556	4679	4803	4927	5050	5174	5298	5421		
12	5545	5669	5792	5916	6040	6163	6287	6411	6534	6658		
13	6781	6905	7029	7152	7276	7400	7523	7647	7770	7894		
14	8018	8141	8265	8388	8512	8635	8759	8883	9006	9130		
15	9253	9377	9500	9624	9747	9871	9995	0118	0242	0365		
16	546 0489	0612	0736	0859	0983	1106	1230	1353	1477	1600		
17	1724	1847	1971	2094	2218	2341	2464	2588	2711	2835		
18	2958	3082	3205	3329	3452	3576	3699	3822	3946	4069		
19	4193	4316	4439	4563	4686	4810	4933	5056	5180	5303		
3520	5427	5550	5673	5797	5920	6043	6167	6290	6414	6537		123
21	6660	6784	6907	7030	7154	7277	7400	7524	7647	7770		1-12
22	7894	8017	8140	8263	8387	8510	8633	8756	8880	9003		2-25
23	9126	9250	9373	9496	9619	9743	9866	9989	0112	0236		3-37
24	547 0359	0482	0605	0729	0852	0975	1098	1222	1345	1468		4-49
25	1591	1714	1838	1961	2084	2207	2330	2454	2577	2700		5-61
26	2823	2946	3069	3193	3316	3439	3562	3685	3808	3931		6-74
27	4055	4178	4301	4424	4547	4670	4793	4916	5040	5163		7-86
28	5286	5409	5532	5655	5778	5901	6024	6147	6270	6393		8-98
29	6517	6640	6763	6886	7009	7132	7255	7378	7501	7624		9-111
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31	8977	9100	9223	9346	9469	9592	9715	9838	9961	0084		
32	548 0207	0330	0453	0576	0699	0822	0945	1068	1190	1313		
33	1436	1559	1682	1805	1928	2051	2174	2297	2420	2543		
34	2665	2788	2911	3034	3157	3280	3403	3526	3648	3771		
35	3894	4017	4140	4263	4386	4508	4631	4754	4877	5000		
36	5123	5245	5368	5491	5614	5737	5859	5982	6105	6228		
37	6351	6473	6596	6719	6842	6964	7087	7210	7333	7455		
38	7578	7701	7824	7946	8069	8192	8315	8437	8560	8683		
39	8806	8928	9051	9174	9296	9419	9542	9665	9787	9910		
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41	1259	1382	1505	1627	1750	1872	1995	2118	2240	2363		1-12
42	2486	2608	2731	2853	2976	3099	3221	3344	3466	3589		2-24
43	3712	3834	3957	4079	4202	4324	4447	4569	4692	4815		3-37
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46	7387	7510	7632	7755	7877	8000	8122	8244	8367	8489		6-73
47	8612	8734	8857	8979	9102	9224	9346	9469	9591	9714		7-85
48	9836	9958	0081	0203	0326	0448	0570	0693	0815	0938		8-98
49	550 1060	1182	1305	1427	1549	1672	1794	1916	2039	2161		9-110
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51	3507	3629	3751	3874	3996	4118	4240	4363	4485	4607		1-12
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53	5952	6074	6196	6319	6441	6563	6685	6808	6930	7052		3-37
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57	5510839	0961	1083	1205	1327	1449	1571	1693	1815	1937		7-85
58	2059	2181	2304	2426	2548	2670	2792	2914	3036	3158		8-98
59	3280	3402	3524	3646	3768	3890	4012	4134	4256	4378	122	9-110
3560	4500	4622	4744	4866	4988	5110	5232	5354	5476	5598		
61	5720	5842	5964	6086	6207	6329	6451	6573	6695	6817		
62	6939	7061	7183	7305	7427	7549	7671	7792	7914	8036		
63	8158	8280	8402	8524	8646	8768	8889	9011	9133	9255		
64	9377	9499	9621	9742	9864	9986	0108	0230	0352	0473		
65	5520595	0717	0839	0961	1083	1204	1326	1448	1570	1692		
66	1813	1935	2057	2179	2300	2422	2544	2666	2788	2909		
67	3031	3153	3275	3396	3518	3640	3762	3883	4005	4127		
68	4248	4370	4492	4614	4735	4857	4979	5100	5222	5344		
69	5465	5587	5709	5830	5952	6074	6195	6317	6439	6560		
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71	7899	8020	8142	8263	8385	8506	8628	8750	8871	8993		1-12
72	9115	9236	9358	9479	9601	9722	9844	9965	0087	0209		2-24
73	5530330	0452	0573	0695	0816	0938	1059	1181	1302	1424		3-36
74	1545	1667	1788	1910	2031	2153	2274	2396	2517	2639		4-48
75	2760	2882	3003	3124	3246	3368	3489	3611	3732	3854		5-60
76	3975	4096	4218	4339	4461	4582	4704	4825	4947	5068		6-73
77	5189	5311	5432	5554	5675	5796	5918	6039	6161	6282		7-85
78	6403	6525	6646	6767	6889	7010	7132	7253	7374	7496		8-97
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81	5540243	0164	0286	0407	0528	0650	0771	0892	1013	1135		
82	1256	1377	1498	1619	1741	1862	1983	2104	2226	2347		
83	2468	2589	2710	2832	2953	3074	3195	3316	3438	3559		
84	3680	3801	3922	4043	4165	4286	4407	4528	4649	4770		
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87	7314	7435	7556	7677	7798	7919	8040	8161	8282	8403		
88	8524	8645	8766	8887	9008	9129	9250	9371	9493	9614	121	
89	9735	9856	9977	0098	0219	0340	0461	0582	0702	0823		
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91	2154	2275	2396	2517	2638	2759	2880	3000	3121	3242		1-12
92	3363	3484	3605	3726	3847	3968	4089	4209	4330	4451		2-24
93	4572	4693	4814	4935	5056	5176	5297	5418	5539	5660		3-36
94	5781	5902	6022	6143	6264	6385	6506	6626	6747	6868		4-48
95	6989	7110	7231	7351	7472	7593	7714	7834	7955	8076		5-60
96	8197	8318	8438	8559	8680	8801	8921	9042	9163	9284		6-72
97	9404	9525	9646	9767	9887	0008	0129	0249	0370	0491		7-84
98	5560612	0732	0853	0974	1094	1215	1336	1456	1577	1698		8-96
99	1818	1939	2060	2180	2301	2422	2542	2663	2784	2904		9-108

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04	7848	7968	8089	8209	8330	8450	8571	8691	8812	8932		4-48
05	9053	9173	9294	9414	9534	9655	9775	9896	0016	0137		5-60
06	5570257	0378	0498	0618	0739	0859	0980	1100	1221	1341		6-73
07	1461	1582	1702	1823	1943	2063	2184	2304	2424	2545		7-85
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09	3869	3989	4109	4230	4350	4470	4591	4711	4831	4952		9-109
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13	8680	8800	8920	9040	9160	9281	9401	9521	9641	9761		
14	9881	0002	0122	0242	0362	0482	0602	0723	0843	0963		
15	5581083	1203	1323	1443	1563	1684	1804	1924	2044	2164		
16	2284	2404	2524	2644	2765	2885	3005	3125	3245	3365		
17	3485	3605	3725	3845	3965	4085	4205	4325	4445	4566		
18	4686	4806	4926	5046	5166	5286	5406	5526	5646	5766	120	
19	5886	6006	6126	6246	6366	6486	6606	6726	6846	6966		
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21	8285	8405	8525	8645	8765	8885	9005	9125	9245	9364		1-12
22	9484	9604	9724	9844	9964	0084	0204	0324	0443	0563		2-24
23	5590683	0803	0923	1043	1163	1283	1402	1522	1642	1762		3-36
24	1882	2002	2121	2241	2361	2481	2601	2721	2840	2960		4-48
25	3080	3200	3320	3439	3559	3679	3799	3919	4038	4158		5-60
26	4278	4398	4517	4637	4757	4877	4996	5116	5236	5356		6-72
27	5476	5595	5715	5835	5954	6074	6194	6314	6433	6553		7-84
28	6673	6792	6912	7032	7151	7271	7391	7511	7630	7750		8-96
29	7870	7989	8109	8229	8348	8468	8588	8707	8827	8947		9-108
3630	9066	9186	9305	9425	9545	9664	9784	9904	0023	0143		
31	5600262	0382	0502	0621	0741	0860	0980	1100	1219	1339		
32	1458	1578	1697	1817	1937	2056	2176	2295	2415	2534		
33	2654	2773	2893	3012	3132	3252	3371	3491	3610	3730		
34	3849	3969	4088	4208	4327	4447	4566	4686	4805	4925		
35	5044	5164	5283	5402	5522	5641	5761	5880	6000	6119		
36	6239	6358	6478	6597	6716	6836	6955	7075	7194	7313		
37	7433	7552	7672	7791	7911	8030	8149	8269	8388	8507		
38	8627	8746	8866	8985	9104	9224	9343	9462	9582	9701		
39	9821	9940	0059	0178	0298	0417	0536	0656	0775	0894		
3640	5611014	1133	1252	1372	1491	1610	1730	1849	1968	2087		119
41	2207	2326	2445	2565	2684	2803	2922	3042	3161	3280		1-12
42	3399	3519	3638	3757	3876	3996	4115	4234	4353	4472		2-24
43	4592	4711	4830	4949	5068	5188	5307	5426	5545	5664		3-36
44	5784	5903	6022	6141	6260	6379	6499	6618	6737	6856		4-48
45	6975	7094	7214	7333	7451	7571	7690	7809	7928	8047		5-59
46	8167	8286	8405	8524	8643	8762	8881	9000	9119	9238		6-71
47	9358	9477	9596	9715	9834	9953	0072	0191	0310	0429		7-83
48	5620548	0667	0786	0905	1024	1143	1262	1381	1500	1620		8-95
49	1739	1858	1977	2096	2215	2334	2453	2572	2691	2810	119	9-107
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51		4118	4237	4356	4475	4594	4713	4832	4951	5070	5189	1-12
52		5308	5427	5545	5664	5783	5902	6021	6140	6259	6378	2-24
53		6497	6616	6734	6853	6972	7091	7210	7329	7448	7566	3-36
54		7685	7804	7923	8042	8161	8280	8398	8517	8636	8755	4-48
55		8874	8993	9111	9230	9349	9468	9587	9705	9824	9943	5-59
56	563	0062	0181	0299	0418	0537	0656	0774	0893	1012	1131	6-71
57		1250	1368	1487	1606	1725	1843	1962	2081	2199	2318	7-83
58		2437	2556	2674	2793	2912	3030	3149	3268	3387	3505	8-95
59		3624	3743	3861	3980	4099	4217	4336	4455	4573	4692	9-107
3660		4811	4929	5048	5167	5285	5404	5523	5641	5760	5879	
61		5997	6116	6234	6353	6472	6590	6709	6828	6946	7065	
62		7183	7302	7420	7539	7658	7776	7895	8013	8132	8251	
63		8369	8488	8606	8725	8843	8962	9080	9199	9317	9436	
64		9555	9673	9792	9910	0029	0147	0266	0384	0503	0621	
65	564	0740	0858	0977	1095	1214	1332	1451	1569	1688	1806	
66		1925	2043	2161	2280	2398	2517	2635	2754	2872	2991	
67		3109	3227	3346	3464	3583	3701	3820	3938	4056	4175	
68		4293	4412	4530	4648	4767	4885	5004	5122	5240	5359	
69		5477	5595	5714	5832	5951	6069	6187	6306	6424	6542	
3670		6661	6779	6897	7016	7134	7252	7371	7489	7607	7725	118
71		7844	7962	8080	8199	8317	8435	8554	8672	8790	8908	1-12
72		9027	9145	9263	9381	9500	9618	9736	9855	9973	0091	2-24
73	565	0209	0327	0446	0564	0682	0800	0919	1037	1155	1273	3-35
74		1392	1510	1628	1746	1864	1982	2101	2219	2337	2455	4-47
75		2573	2692	2810	2928	3046	3164	3282	3401	3519	3637	5-59
76		3755	3873	3991	4109	4228	4346	4464	4582	4700	4818	6-71
77		4936	5054	5172	5291	5409	5527	5645	5763	5881	5999	7-83
78		6117	6235	6353	6471	6589	6708	6826	6944	7062	7180	8-94
79		7298	7416	7534	7652	7770	7888	8006	8124	8242	8360	9-106
3680		8478	8596	8714	8832	8950	9068	9186	9304	9422	9540	118
81		9658	9776	9894	0012	0130	0248	0366	0484	0602	0720	
82	566	0838	0956	1074	1192	1310	1428	1545	1663	1781	1899	
83		2017	2135	2253	2371	2489	2607	2725	2842	2960	3078	
84		3196	3314	3432	3550	3668	3786	3903	4021	4139	4257	
85		4375	4493	4611	4728	4846	4964	5082	5200	5318	5435	
86		5553	5671	5789	5907	6025	6142	6260	6378	6496	6614	
87		6731	6849	6967	7085	7202	7320	7438	7556	7674	7791	
88		7909	8027	8145	8262	8380	8498	8616	8733	8851	8969	
89		9087	9204	9322	9440	9557	9675	9793	9911	0028	0146	
3690	567	0264	0381	0499	0617	0734	0852	0970	1087	1205	1323	117
91		1440	1558	1676	1793	1911	2029	2146	2264	2382	2499	1-12
92		2617	2735	2852	2970	3087	3205	3323	3440	3558	3675	2-23
93		3793	3911	4028	4146	4263	4381	4499	4616	4734	4851	3-35
94		4969	5086	5204	5322	5439	5557	5674	5792	5909	6027	4-47
95		6144	6262	6379	6497	6614	6732	6850	6967	7085	7202	5-58
96		7320	7437	7555	7672	7790	7907	8025	8142	8260	8377	6-70
97		8495	8612	8729	8847	8964	9082	9199	9317	9434	9552	7-82
98		9669	9786	9904	0021	0139	0256	0374	0491	0608	0726	8-94
99	568	0843	0961	1078	1195	1313	1430	1548	1665	1782	1900	9-105
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03	5537	5654	5772	5889	6006	6123	6241	6358	6475	6592		3-35
04	6710	6827	6944	7061	7179	7296	7413	7530	7648	7765		4-47
05	7882	7999	8117	8234	8351	8468	8585	8703	8820	8937		5-59
06	9054	9171	9288	9406	9523	9640	9757	9874	9991	0109		6-71
07	569	0226	0343	0460	0577	0694	0812	0929	1046	1163	1280	7-83
08	1397	1514	1631	1749	1866	1983	2100	2217	2334	2451		8-94
09	2568	2685	2802	2920	3037	3154	3271	3388	3505	3622		9-106
3710	3739	3856	3973	4090	4207	4324	4441	4558	4675	4792		
11	4910	5027	5144	5261	5378	5495	5612	5729	5846	5963	117	
12	6080	6197	6314	6431	6548	6665	6782	6899	7016	7132		
13	7249	7366	7483	7600	7717	7834	7951	8068	8185	8302		
14	8419	8536	8653	8770	8887	9004	9120	9237	9354	9471		
15	9588	9705	9822	9939	0056	0173	0289	0406	0523	0640		
16	570	0757	0874	0991	1108	1224	1341	1458	1575	1692	1809	
17	1926	2042	2159	2276	2393	2510	2627	2743	2860	2977		
18	3094	3211	3327	3444	3561	3678	3795	3911	4028	4145		
19	4262	4379	4495	4612	4729	4846	4962	5079	5196	5313		
3720	5429	5546	5663	5780	5896	6013	6130	6246	6363	6480		117
21	6597	6713	6830	6947	7063	7180	7297	7414	7530	7647		1-12
22	7764	7880	7997	8114	8230	8347	8464	8580	8697	8814		2-23
23	8930	9047	9164	9280	9397	9514	9630	9747	9863	9980		3-35
24	571	0097	0213	0330	0447	0563	0680	0796	0913	1030	1146	4-47
25	1263	1379	1496	1612	1729	1846	1962	2079	2195	2312		5-58
26	2429	2545	2662	2778	2895	3011	3128	3244	3361	3477		6-70
27	3594	3710	3827	3943	4060	4176	4293	4409	4526	4642		7-82
28	4759	4875	4992	5108	5225	5341	5458	5574	5691	5807		8-94
29	5924	6040	6157	6273	6390	6506	6623	6739	6855	6972		9-105
3730	7088	7205	7321	7438	7554	7670	7787	7903	8020	8136		
31	8252	8369	8485	8602	8718	8834	8951	9067	9184	9300		
32	9416	9533	9649	9765	9882	9998	0114	0231	0347	0464		
33	572	0580	0696	0813	0929	1045	1162	1278	1394	1510	1627	
34	1743	1859	1976	2092	2208	2325	2441	2557	2673	2790		
35	2906	3022	3139	3255	3371	3487	3604	3720	3836	3952		
36	4069	4185	4301	4417	4534	4650	4766	4882	4998	5115		
37	5231	5347	5463	5580	5696	5812	5928	6044	6161	6277		
38	6393	6509	6625	6741	6858	6974	7090	7206	7322	7438		
39	7555	7671	7787	7903	8019	8135	8251	8368	8484	8600		
3740	8716	8832	8948	9064	9180	9297	9413	9529	9645	9761		116
41	9877	9993	0109	0225	0341	0457	0574	0690	0806	0922		1-12
42	573	1038	1154	1270	1386	1502	1618	1734	1850	1966	2082	2-23
43	2198	2314	2430	2546	2662	2778	2894	3010	3126	3242	3358	3-35
44	3358	3474	3590	3706	3822	3938	4054	4170	4286	4402		4-46
45	4518	4634	4750	4866	4982	5098	5214	5330	5446	5562		5-58
46	5678	5794	5910	6025	6141	6257	6373	6489	6605	6721		6-70
47	6837	6953	7069	7185	7300	7416	7532	7648	7764	7880		7-81
48	7996	8112	8228	8343	8459	8575	8691	8807	8923	9039		8-93
49	9154	9270	9386	9502	9618	9734	9849	9965	0081	0197		9-104
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# N. 37500 L.574

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51	1471	1586	1702	1818	1934	2049	2165	2281	2397	2512		1-12
52	2628	2744	2860	2975	3091	3207	3323	3438	3554	3670		2-23
53	3786	3901	4017	4133	4248	4364	4480	4596	4711	4827		3-35
54	4943	5058	5174	5290	5405	5521	5637	5752	5868	5984		4-46
55	6099	6215	6331	6446	6562	6678	6793	6909	7025	7140		5-58
56	7256	7371	7487	7603	7718	7834	7949	8065	8181	8296		6-70
57	8412	8527	8643	8759	8874	8990	9105	9221	9337	9452		7-81
58	9568	9683	9799	9914	0030	0145	0261	0377	0492	0607		8-93
59	5750723	0839	0954	1070	1185	1301	1416	1532	1647	1763		9-104
3760	1878	1994	2109	2225	2340	2456	2571	2687	2802	2918		
61	3033	3149	3264	3380	3495	3611	3726	3842	3957	4072		
62	4188	4303	4419	4534	4650	4765	4880	4996	5111	5227		
63	5342	5458	5573	5688	5804	5919	6035	6150	6265	6381		
64	6496	6611	6727	6842	6958	7073	7188	7304	7419	7534		
65	7650	7765	7880	7996	8111	8226	8342	8457	8572	8688		
66	8803	8918	9034	9149	9264	9380	9495	9610	9726	9841		
67	9956	0071	0187	0302	0417	0533	0648	0763	0878	0994		
68	5761109	1224	1339	1455	1570	1685	1800	1916	2031	2146		
69	2261	2377	2492	2607	2722	2837	2953	3068	3183	3298		
3770	3414	3529	3644	3759	3874	3989	4105	4220	4335	4450		115
71	4505	4620	4736	4851	4966	5081	5196	5311	5427	5542		1-11
72	5717	5832	5947	6062	6177	6292	6408	6523	6638	6753		2-23
73	6868	6983	7098	7213	7328	7443	7559	7674	7789	7904		3-34
74	8019	8134	8249	8364	8479	8594	8709	8824	8939	9054		4-46
75	9170	9285	9400	9515	9630	9745	9860	9975	0090	0205		5-57
76	5770320	0435	0550	0665	0780	0895	1010	1125	1240	1355	115	6-69
77	1470	1585	1700	1815	1930	2045	2160	2275	2390	2505		7-80
78	2620	2734	2849	2964	3079	3194	3309	3424	3539	3654		8-92
79	3769	3884	3999	4114	4229	4343	4458	4573	4688	4803		9-103
3780	4918	5033	5148	5263	5377	5492	5607	5722	5837	5952		
81	6067	6182	6296	6411	6526	6641	6756	6871	6986	7100		
82	7215	7330	7445	7560	7674	7789	7904	8019	8134	8249		
83	8363	8478	8593	8708	8823	8937	9052	9167	9282	9396		
84	9511	9626	9741	9856	9970	0085	0200	0315	0429	0544		
85	5780659	0774	0888	1003	1118	1232	1347	1462	1577	1691		
86	1806	1921	2035	2150	2265	2380	2494	2609	2724	2838		
87	2953	3068	3182	3297	3412	3526	3641	3756	3870	3985		
88	4100	4214	4329	4444	4558	4673	4787	4902	5017	5131		
89	5246	5361	5475	5590	5704	5819	5934	6048	6163	6277		
3790	6392	6507	6621	6736	6850	6965	7080	7194	7309	7423		114
91	7538	7652	7767	7881	7996	8111	8225	8340	8454	8569		1-11
92	8683	8798	8912	9027	9141	9256	9370	9485	9599	9714		2-23
93	9828	9943	0057	0172	0286	0401	0515	0630	0744	0859		3-34
94	5790973	1088	1202	1317	1431	1546	1660	1774	1889	2003		4-46
95	2118	2232	2347	2461	2575	2690	2804	2919	3033	3148		5-57
96	3262	3376	3491	3605	3720	3834	3948	4063	4177	4292		6-68
97	4406	4520	4635	4749	4863	4978	5092	5206	5321	5435		7-80
98	5550	5664	5778	5893	6007	6121	6236	6350	6464	6579		8-91
99	6693	6807	6922	7036	7150	7264	7379	7493	7607	7722		9-103
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01	8979	9093	9207	9321	9436	9550	9664	9778	9893	0007		1-11
02	5800	0121	0235	0350	0464	0578	0692	0806	0921	1035	1149	2-23
03	1263	1377	1492	1606	1720	1834	1948	2063	2177	2291		3-34
04	2405	2519	2633	2748	2862	2976	3090	3204	3318	3432		4-46
05	3547	3661	3775	3889	4003	4117	4231	4345	4460	4574		5-57
06	4688	4802	4916	5030	5144	5258	5372	5486	5601	5715		6-69
07	5829	5943	6057	6171	6285	6399	6513	6627	6741	6855		7-80
08	6969	7083	7197	7311	7426	7540	7654	7768	7882	7996		8-92
09	8110	8224	8338	8452	8566	8680	8794	8908	9022	9136	114	9-103
3810	9250	9364	9478	9592	9706	9820	9934	0048	0162	0275		
11	5810	0389	0503	0617	0731	0845	0959	1073	1187	1301	1415	
12	1529	1643	1757	1871	1985	2098	2212	2326	2440	2554		
13	2668	2782	2896	3010	3124	3237	3351	3465	3579	3693		
14	3807	3921	4035	4148	4262	4376	4490	4604	4718	4832		
15	4945	5059	5173	5287	5401	5515	5628	5742	5856	5970		
16	6084	6197	6311	6425	6539	6653	6766	6880	6994	7108		
17	7222	7335	7449	7563	7677	7790	7904	8018	8132	8245		
18	8359	8473	8587	8700	8814	8928	9042	9155	9269	9383		
19	9497	9610	9724	9838	9951	0065	0179	0292	0406	0520		
3820	5820	0634	0747	0861	0975	1088	1202	1316	1429	1543	1657	114
21	1770	1884	1998	2111	2225	2339	2452	2566	2680	2793		1-11
22	2907	3020	3134	3248	3361	3475	3589	3702	3816	3929		2-23
23	4043	4157	4270	4384	4497	4611	4724	4838	4952	5065		3-34
24	5179	5292	5406	5519	5633	5747	5860	5974	6087	6101		4-46
25	6314	6428	6541	6655	6768	6882	6996	7109	7223	7336		5-57
26	7450	7563	7677	7790	7904	8017	8131	8244	8358	8471		6-68
27	8585	8698	8812	8925	9038	9152	9265	9379	9492	9606		7-80
28	9719	9833	9946	0060	0173	0286	0400	0513	0627	0740		8-91
29	5830	0854	0967	1080	1194	1307	1421	1534	1647	1761	1874	9-103
3830	1988	2101	2214	2328	2441	2555	2668	2781	2895	3008		
31	3122	3235	3348	3462	3575	3688	3802	3915	4028	4142		
32	4255	4368	4482	4595	4708	4822	4935	5048	5162	5275		
33	5388	5501	5615	5728	5841	5955	6068	6181	6294	6408		
34	6521	6634	6748	6861	6974	7087	7201	7314	7427	7540		
35	7654	7767	7880	7993	8107	8220	8333	8446	8559	8673		
36	8786	8899	9012	9126	9239	9352	9465	9578	9692	9805		
37	9918	0031	0144	0257	0371	0484	0597	0710	0823	0936		
38	5840	1050	1163	1276	1389	1502	1615	1729	1842	1955	2068	
39	2181	2294	2407	2520	2634	2747	2860	2973	3086	3199		
3840	3312	3425	3538	3651	3765	3878	3991	4104	4217	4330		113
41	4443	4556	4669	4782	4895	5008	5121	5234	5347	5461		1-11
42	5574	5687	5800	5913	6026	6139	6252	6365	6478	6591		2-23
43	6704	6817	6930	7043	7156	7269	7382	7495	7608	7721		3-34
44	7834	7947	8060	8173	8286	8399	8512	8625	8737	8850		4-45
45	8963	9076	9189	9302	9415	9528	9641	9754	9867	9980		5-56
46	5850	0093	0206	0319	0431	0544	0657	0770	0883	0996	1109	6-68
47	1222	1335	1448	1560	1673	1786	1899	2012	2125	2238		7-79
48	2351	2463	2576	2689	2802	2915	3028	3141	3253	3366		8-90
49	3479	3592	3705	3818	3930	4043	4156	4269	4381	4494		9-102
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51	5735	5848	5961	6073	6186	6299	6412	6524	6637	6750	6863	1-11
52	6863	6975	7088	7201	7314	7426	7539	7652	7765	7878	7991	2-23
53	7990	8103	8215	8328	8441	8554	8666	8779	8892	9004	9117	3-34
54	9117	9230	9342	9455	9568	9680	9793	9906	0018	0131	0244	4-45
55	586	0244	0356	0469	0582	0694	0807	0920	1032	1145	1258	5-56
56	1370	1483	1595	1708	1821	1933	2046	2159	2271	2384	2497	6-68
57	2496	2609	2722	2834	2947	3059	3172	3285	3397	3510	3623	7-79
58	3622	3735	3847	3960	4072	4185	4298	4410	4523	4635	4748	8-90
59	4748	4860	4973	5085	5198	5310	5423	5535	5648	5760	5873	9-102
3860	5873	5986	6098	6211	6323	6436	6548	6661	6773	6885	6998	
61	6998	7110	7223	7335	7448	7560	7673	7785	7898	8010	8123	
62	8123	8235	8348	8460	8572	8685	8797	8910	9022	9135	9248	
63	9247	9359	9472	9584	9697	9809	9922	0034	0146	0259	0372	
64	587	0371	0484	0596	0708	0821	0933	1045	1158	1270	1383	
65	1495	1607	1720	1832	1944	2057	2169	2281	2394	2506	2619	
66	2618	2731	2843	2955	3068	3180	3292	3405	3517	3629	3742	
67	3742	3854	3966	4079	4191	4303	4415	4528	4640	4752	4865	
68	4865	4977	5089	5201	5314	5426	5538	5650	5763	5875	5988	
69	5987	6099	6212	6324	6436	6548	6661	6773	6885	6997	7110	
3870	7110	7222	7334	7446	7558	7671	7783	7895	8007	8119	8232	112
71	8232	8344	8456	8568	8680	8793	8905	9017	9129	9241	9354	1-11
72	9353	9466	9578	9690	9802	9914	0026	0139	0251	0363	0476	2-22
73	588	0475	0587	0699	0811	0923	1036	1148	1260	1372	1484	3-34
74	1596	1708	1820	1932	2045	2157	2269	2381	2493	2605	2718	4-45
75	2717	2829	2941	3053	3165	3277	3389	3501	3614	3726	3838	5-56
76	3838	3950	4062	4174	4286	4398	4510	4622	4734	4846	4959	6-67
77	4958	5070	5182	5294	5406	5518	5630	5742	5854	5966	6078	7-78
78	6078	6190	6302	6414	6526	6638	6750	6862	6974	7086	7198	8-90
79	7198	7310	7422	7534	7646	7758	7869	7981	8093	8205	8317	9-101
3880	8317	8429	8541	8653	8765	8877	8989	9101	9213	9324	9437	
81	9436	9548	9660	9772	9884	9996	0108	0220	0332	0443	0555	
82	589	0555	0667	0779	0891	1003	1115	1226	1338	1450	1562	
83	1674	1786	1898	2009	2121	2233	2345	2457	2569	2680	2792	
84	2792	2904	3016	3128	3239	3351	3463	3575	3687	3798	3910	
85	3910	4022	4134	4246	4357	4469	4581	4693	4804	4916	5028	
86	5028	5140	5251	5363	5475	5587	5698	5810	5922	6034	6145	
87	6145	6257	6369	6481	6592	6704	6816	6927	7039	7151	7263	
88	7263	7374	7486	7598	7709	7821	7933	8044	8156	8268	8379	
89	8379	8491	8603	8714	8826	8938	9049	9161	9273	9384	9496	
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91	590	0612	0724	0835	0947	1059	1170	1282	1393	1505	1617	1-11
92	1728	1840	1951	2063	2175	2286	2398	2509	2621	2732	2844	2-22
93	2844	2956	3067	3179	3290	3402	3513	3625	3736	3848	3959	3-33
94	3959	4071	4182	4294	4406	4517	4629	4740	4852	4963	5075	4-44
95	5075	5186	5298	5409	5521	5632	5744	5855	5966	6078	6189	5-55
96	6189	6301	6413	6524	6635	6747	6858	6970	7081	7193	7304	6-67
97	7304	7415	7527	7638	7750	7861	7973	8084	8196	8307	8418	7-78
98	8418	8530	8641	8753	8864	8975	9087	9198	9310	9421	9532	8-89
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02	2873	2984	3095	3206	3318	3429	3540	3652	3763	3874		2-22
03	3986	4097	4208	4319	4431	4542	4653	4764	4876	4987		3-34
04	5098	5209	5321	5432	5543	5654	5765	5877	5988	6099		4-45
05	6210	6322	6433	6544	6655	6766	6878	6989	7100	7211		5-56
06	7322	7434	7545	7656	7767	7878	7989	8101	8212	8323		6-67
07	8434	8545	8656	8768	8879	8990	9101	9212	9323	9434		7-78
08	9546	9657	9768	9879	9990	0101	0212	0323	0434	0546		8-90
09	592 0657	0768	0879	0990	1101	1212	1323	1434	1545	1656		9-101
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13	5098	5209	5320	5431	5542	5653	5764	5875	5986	6097		
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15	7318	7429	7539	7650	7761	7872	7983	8094	8205	8316		
16	8427	8538	8649	8759	8870	8981	9092	9203	9314	9425		
17	9536	9647	9757	9868	9979	0090	0201	0312	0423	0533		
18	593 0644	0755	0866	0977	1088	1198	1309	1420	1531	1642		
19	1753	1863	1974	2085	2196	2307	2417	2528	2639	2750		
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21	3968	4079	4190	4301	4411	4522	4633	4744	4854	4965		1-11
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23	6183	6294	6404	6515	6626	6737	6847	6958	7069	7179		3-33
24	7290	7401	7511	7622	7733	7843	7954	8065	8175	8286		4-44
25	8397	8507	8618	8728	8839	8950	9060	9171	9282	9392		5-55
26	9503	9614	9724	9835	9945	0056	0167	0277	0388	0498		6-67
27	594 0609	0720	0830	0941	1051	1162	1272	1383	1494	1604		7-78
28	1715	1825	1936	2046	2157	2268	2378	2489	2599	2710		8-89
29	2820	2931	3041	3152	3262	3373	3483	3594	3704	3815		9-100
3930	3926	4036	4146	4257	4367	4478	4588	4699	4809	4920		
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32	6135	6245	6356	6466	6577	6687	6798	6908	7019	7129		
33	7239	7350	7460	7571	7681	7791	7902	8012	8123	8233		
34	8344	8454	8564	8675	8785	8895	9006	9116	9227	9337		
35	9447	9558	9668	9778	9889	9999	0109	0220	0330	0441		
36	595 0551	0661	0772	0882	0992	1103	1213	1323	1433	1544		
37	1654	1764	1875	1985	2095	2206	2316	2426	2536	2647		
38	2757	2867	2978	3088	3198	3308	3419	3529	3639	3749		
39	3860	3970	4080	4191	4301	4411	4521	4631	4742	4852		
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41	6064	6174	6285	6395	6505	6615	6725	6836	6946	7056		1-11
42	7166	7276	7386	7497	7607	7717	7827	7937	8047	8158		2-22
43	8268	8378	8488	8598	8708	8818	8929	9039	9149	9259		3-33
44	9369	9479	9589	9699	9809	9920	0030	0140	0250	0360		4-44
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46	1571	1681	1791	1901	2011	2121	2231	2341	2451	2561		6-66
47	2671	2781	2891	3001	3111	3221	3331	3441	3551	3661	110	7-77
48	3771	3881	3991	4101	4211	4321	4431	4541	4651	4761		8-88
49	4871	4981	5091	5201	5311	5421	5531	5641	5751	5861		9-99
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51	707	718	729	740	751	762	773	784	795	805	816	1-11
52	816	827	838	849	860	871	882	893	904	915	926	2-22
53	926	937	948	959	970	981	992	003	014	025	036	3-33
54	597	036	047	058	069	080	091	102	113	124	135	4-44
55	146	157	168	179	190	201	212	223	234	245	256	5-55
56	256	267	278	289	300	311	322	333	344	355	366	6-66
57	366	377	388	399	409	420	431	442	453	464	475	7-77
58	475	486	497	508	519	530	541	552	563	574	585	8-88
59	585	596	607	618	629	640	651	662	673	684	695	9-99
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61	804	815	826	837	848	859	870	881	892	903	914	1-11
62	914	925	936	947	958	969	980	991	002	013	024	2-22
63	598	024	035	046	057	068	079	090	101	112	123	3-33
64	136	147	158	169	180	191	202	213	224	235	246	4-44
65	243	254	265	276	287	298	309	320	331	342	353	5-54
66	353	364	375	386	397	408	419	430	441	452	463	6-65
67	462	473	484	495	506	517	528	539	550	561	572	7-76
68	571	582	593	604	615	626	637	648	659	670	681	8-87
69	681	692	703	714	725	736	747	758	769	780	791	9-98
3970	790	801	812	823	834	845	856	867	878	889	900	109
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72	599	009	020	031	042	053	064	075	086	097	108	2-22
73	118	129	140	151	162	173	184	195	206	217	228	3-33
74	227	238	249	260	271	282	293	304	315	326	337	4-44
75	337	348	359	370	381	392	403	414	425	436	447	5-54
76	446	457	468	479	490	501	512	523	534	545	556	6-65
77	556	567	578	589	599	610	621	632	643	654	665	7-76
78	664	675	686	697	708	719	730	741	752	763	774	8-87
79	773	784	795	806	817	828	839	850	861	872	883	9-98
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81	992	003	014	025	036	047	058	069	080	091	102	1-11
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83	210	221	232	243	254	265	276	287	298	309	320	3-32
84	319	330	341	352	363	374	385	396	407	418	429	4-43
85	428	439	450	461	472	483	494	505	516	527	538	5-54
86	537	548	559	570	581	592	603	614	625	636	647	6-65
87	646	657	668	679	690	701	712	723	734	745	756	7-76
88	755	766	777	788	799	810	821	832	843	854	865	8-86
89	864	875	886	897	908	919	930	941	952	963	974	9-97
3990	972	983	994	005	016	027	038	049	060	071	082	108
91	601	081	092	103	114	125	136	147	158	169	180	1-11
92	190	201	212	223	234	245	256	267	278	289	300	2-22
93	299	310	321	332	343	354	365	376	387	398	409	3-32
94	408	419	430	441	452	463	474	485	496	507	518	4-43
95	516	527	538	549	560	571	582	593	604	615	626	5-54
96	625	636	647	658	669	680	691	702	713	724	735	6-65
97	734	745	756	767	778	789	800	811	822	833	844	7-76
98	842	853	864	875	886	897	908	919	930	941	952	8-86
99	951	962	973	984	995	006	017	028	039	050	061	9-97
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07	8193	8302	8410	8519	8627	8735	8844	8952	9060	9169		
08	9277	9385	9494	9602	9710	9819	9927	0036	0144	0252		
09	603	0361	0469	0577	0685	0794	0902	1010	1119	1227	1335	
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11	2527	2635	2743	2851	2960	3068	3176	3284	3393	3501		1-11
12	3609	3717	3826	3934	4042	4150	4259	4367	4475	4583		2-22
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14	5774	5882	5990	6098	6206	6315	6423	6531	6639	6747		4-44
15	6855	6964	7072	7180	7288	7396	7504	7613	7721	7829		5-54
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17	9018	9126	9234	9343	9451	9559	9667	9775	9883	9991		7-76
18	604	0099	0207	0315	0424	0532	0640	0748	0856	0964	1072	8-87
19	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152		9-98
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21	3341	3449	3557	3665	3773	3881	3989	4097	4205	4313		
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24	6580	6688	6795	6903	7011	7119	7227	7335	7443	7551		
25	7659	7767	7875	7982	8090	8198	8306	8414	8522	8630		
26	8738	8845	8953	9061	9169	9277	9385	9493	9601	9708		
27	9816	9924	0032	0140	0248	0355	0463	0571	0679	0787		
28	605	0895	1002	1110	1218	1326	1434	1541	1649	1757	1865	
29	1973	2080	2188	2296	2404	2512	2619	2727	2835	2943		
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34	7359	7467	7574	7682	7789	7897	8005	8112	8220	8328		4-43
35	8435	8543	8651	8758	8866	8973	9081	9189	9296	9404		5-54
36	9512	9619	9727	9834	9942	0050	0157	0265	0372	0480		6-65
37	606	0587	0695	0803	0910	1018	1125	1233	1340	1448	1556	7-76
38	1663	1771	1878	1986	2093	2201	2308	2416	2523	2631		8-86
39	2739	2846	2953	3061	3169	3276	3384	3491	3599	3706		9-97
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41	4889	4996	5103	5211	5318	5426	5533	5641	5748	5856		
42	5963	6070	6178	6285	6393	6500	6608	6715	6823	6930		
43	7037	7145	7252	7360	7467	7574	7682	7789	7897	8004		
44	8111	8219	8326	8434	8541	8648	8756	8863	8970	9078		
45	9185	9293	9400	9507	9615	9722	9829	9937	0044	0151		
46	607	0259	0366	0473	0581	0688	0795	0903	1010	1117	1225	
47	1332	1439	1547	1654	1761	1869	1976	2083	2190	2298		
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52	6694	6801	6909	7016	7123	7230	7337	7445	7552	7659	
53	7766	7873	7980	8087	8195	8302	8409	8516	8623	8730	
54	8837	8945	9052	9159	9266	9373	9480	9587	9694	9801	
55	9909	0016	0123	0230	0337	0444	0551	0658	0765	0872	
56	608	0979	1086	1194	1301	1408	1515	1622	1729	1836	
57	2050	2157	2264	2371	2478	2585	2692	2799	2906	3013	
58	3120	3227	3334	3441	3548	3655	3762	3869	3976	4083	107
59	4191	4297	4404	4511	4618	4725	4832	4939	5046	5153	
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61	6330	6437	6544	6651	6758	6865	6971	7078	7185	7292	1-11
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63	8468	8575	8682	8789	8896	9003	9109	9216	9323	9430	3-32
64	9537	9644	9751	9858	9964	0071	0178	0285	0392	0499	4-43
65	609	0605	0712	0819	0926	1033	1140	1246	1353	1460	5-53
66	1674	1781	1887	1994	2101	2208	2315	2421	2528	2635	6-64
67	2742	2848	2955	3062	3169	3276	3382	3489	3596	3703	7-75
68	3809	3916	4023	4130	4236	4343	4450	4557	4663	4770	8-86
69	4877	4984	5090	5197	5304	5410	5517	5624	5731	5837	9-96
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71	7011	7118	7224	7331	7438	7544	7651	7758	7864	7971	
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81	7666	7772	7879	7985	8092	8198	8304	8411	8517	8624	1-11
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84	611	0857	0964	1070	1176	1283	1389	1495	1602	1708	4-42
85	1921	2027	2133	2239	2346	2452	2558	2665	2771	2877	5-53
86	2984	3090	3196	3302	3409	3515	3621	3728	3834	3940	6-64
87	4046	4153	4259	4365	4471	4578	4684	4790	4896	5003	7-74
88	5109	5215	5321	5428	5534	5640	5746	5852	5959	6065	8-85
89	6171	6277	6383	6490	6596	6702	6808	6914	7021	7127	9-95
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91	8295	8401	8507	8613	8719	8826	8932	9038	9144	9250	
92	9356	9462	9568	9675	9781	9887	9993	0099	0205	0311	
93	612	0417	0524	0630	0736	0842	0948	1054	1160	1266	
94	1478	1584	1690	1797	1903	2009	2115	2221	2327	2433	
95	2539	2645	2751	2857	2963	3069	3175	3281	3387	3493	
96	3599	3706	3811	3918	4024	4130	4236	4342	4448	4554	106
97	4660	4766	4872	4978	5084	5190	5296	5402	5508	5614	
98	5720	5825	5931	6037	6143	6249	6355	6461	6567	6673	
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04	2074	2179	2285	2391	2497	2603	2708	2814	2920	3026		
05	3132	3237	3343	3449	3555	3661	3766	3872	3978	4084		
06	4189	4295	4401	4507	4612	4718	4824	4930	5035	5141		
07	5247	5353	5458	5564	5670	5776	5881	5987	6093	6199		
08	6304	6410	6516	6621	6727	6833	6939	7044	7150	7256		
09	7361	7467	7573	7678	7784	7890	7995	8101	8207	8312		
110	8418	8524	8629	8735	8841	8946	9052	9158	9263	9369		106
11	9475	9580	9686	9792	9897	0003	0109	0214	0320	0425		1-11
12	6140531	0637	0742	0848	0953	1059	1165	1270	1376	1481		2-21
13	1587	1693	1798	1904	2009	2115	2221	2326	2432	2537		3-32
14	2643	2748	2854	2960	3065	3171	3276	3382	3487	3593		4-42
15	3698	3804	3909	4015	4120	4226	4332	4437	4543	4648		5-53
16	4754	4859	4965	5070	5176	5281	5387	5492	5598	5703		6-64
17	5809	5914	6020	6125	6231	6336	6441	6547	6652	6758		7-74
18	6863	6969	7074	7180	7285	7391	7496	7602	7707	7812		8-85
19	7918	8023	8129	8234	8340	8445	8550	8656	8761	8867		9-95
1120	8972	9078	9183	9288	9394	9499	9605	9710	9815	9921		
21	6150026	0131	0237	0342	0448	0553	0658	0764	0869	0974		
22	1080	1185	1291	1396	1501	1607	1712	1817	1923	2028		
23	2133	2239	2344	2449	2555	2660	2765	2871	2976	3081		
24	3187	3292	3397	3502	3608	3713	3818	3924	4029	4134		
25	4240	4345	4450	4555	4661	4766	4871	4976	5082	5187		
26	5292	5397	5503	5608	5713	5818	5924	6029	6134	6239		
27	6345	6450	6555	6660	6766	6871	6976	7081	7186	7292		
28	7397	7502	7607	7712	7818	7923	8028	8133	8238	8344		
29	8449	8554	8659	8764	8869	8975	9080	9185	9290	9395		
1130	9501	9606	9711	9816	9921	0026	0131	0236	0342	0447		105
31	6160552	0657	0762	0867	0972	1077	1183	1288	1393	1498		1-10
32	1603	1708	1813	1918	2023	2129	2234	2339	2444	2549		2-21
33	2654	2759	2864	2969	3074	3179	3284	3389	3495	3600		3-31
34	3705	3810	3915	4020	4125	4230	4335	4440	4545	4650		4-42
35	4755	4860	4965	5070	5175	5280	5385	5490	5595	5700	105	5-52
36	5805	5910	6015	6120	6225	6330	6435	6540	6645	6750		6-63
37	6855	6960	7065	7170	7275	7380	7485	7590	7695	7800		7-73
38	7905	8010	8115	8220	8325	8430	8534	8639	8744	8849		8-84
39	8954	9059	9164	9269	9374	9479	9584	9689	9794	9898		9-94
1140	6170003	0108	0213	0318	0423	0528	0633	0738	0842	0947		
41	1052	1157	1262	1367	1472	1577	1681	1786	1891	1996		
42	2101	2206	2311	2415	2520	2625	2730	2835	2940	3044		
43	3149	3254	3359	3464	3569	3673	3778	3883	3988	4093		
44	4197	4302	4407	4512	4617	4721	4826	4931	5036	5141		
45	5245	5350	5455	5560	5664	5769	5874	5979	6083	6188		
46	6293	6398	6502	6607	6712	6817	6921	7026	7131	7236		
47	7340	7445	7550	7654	7759	7864	7969	8073	8178	8283		
48	8387	8492	8597	8702	8806	8911	9016	9120	9225	9330		
49	9434	9539	9644	9748	9853	9958	0062	0167	0272	0376		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 41500 L. 618

Name	0	1	2	3	4	5	6	7	8	9	D	Pts.
4150	6180	481	0586	0690	0795	0899	1004	1109	1213	1318	1423	
51	1527	1632	1737	1841	1946	2050	2155	2260	2364	2469		
52	2573	2678	2783	2887	2992	3096	3201	3306	3410	3515		
53	3619	3724	3828	3933	4038	4142	4247	4351	4456	4560		
54	4665	4769	4874	4979	5083	5188	5292	5397	5501	5606		
55	5710	5815	5919	6024	6128	6233	6337	6442	6546	6651		
56	6755	6860	6964	7069	7173	7278	7382	7487	7591	7696		
57	7800	7905	8009	8114	8218	8323	8427	8531	8636	8740		
58	8845	8949	9054	9158	9263	9367	9471	9576	9680	9785		
59	9889	9994	0098	0202	0307	0411	0516	0620	0724	0829		
4160	6190	0933	1038	1142	1246	1351	1455	1560	1664	1768	1873	104
61	1977	2081	2186	2290	2395	2499	2603	2708	2812	2916		1-10
62	3021	3125	3229	3334	3438	3542	3647	3751	3855	3960		2-21
63	4064	4168	4273	4377	4481	4586	4690	4794	4899	5003		3-31
64	5107	5211	5316	5420	5524	5629	5733	5837	5941	6046		4-42
65	6150	6254	6359	6463	6567	6671	6776	6880	6984	7088		5-52
66	7193	7297	7401	7505	7610	7714	7818	7922	8027	8131		6-62
67	8235	8339	8443	8548	8652	8756	8860	8964	9069	9173		7-73
68	9277	9381	9485	9590	9694	9798	9902	0006	0111	0215		8-83
69	6200	319	0423	0527	0631	0736	0840	0944	1048	1152	1256	9-94
4170	1361	1465	1569	1673	1777	1881	1985	2089	2194	2298		
71	2402	2506	2610	2714	2818	2922	3027	3131	3235	3339		
72	3443	3547	3651	3755	3859	3963	4067	4172	4276	4380		
73	4484	4588	4692	4796	4900	5004	5108	5212	5316	5420		
74	5524	5628	5732	5837	5941	6045	6149	6253	6357	6461		
75	6565	6669	6773	6877	6981	7085	7189	7293	7397	7501	104	
76	7605	7709	7813	7917	8021	8125	8229	8333	8437	8541		
77	8645	8749	8853	8957	9061	9165	9269	9372	9476	9580		
78	9684	9788	9892	9996	0100	0204	0308	0412	0516	0620		
79	6210	724	0828	0931	1035	1139	1243	1347	1451	1555	1659	
4180	1763	1867	1971	2074	2178	2282	2386	2490	2594	2698		103
81	2802	2905	3009	3113	3217	3321	3425	3529	3633	3736		1-10
82	3840	3944	4048	4152	4256	4359	4463	4567	4671	4775		2-21
83	4879	4982	5086	5190	5294	5398	5501	5605	5709	5813		3-31
84	5917	6021	6124	6228	6332	6436	6539	6643	6747	6851		4-41
85	6955	7058	7162	7266	7370	7473	7577	7681	7785	7888		5-51
86	7992	8096	8200	8303	8407	8511	8615	8718	8822	8926		6-62
87	9030	9133	9237	9341	9444	9548	9652	9756	9859	9963		7-72
88	6220	0667	0170	0274	0378	0481	0585	0689	0793	0896	1000	8-82
89	1104	1207	1311	1415	1518	1622	1726	1829	1933	2037		9-93
4190	2140	2244	2347	2451	2555	2658	2762	2866	2969	3073		
91	3177	3280	3384	3487	3591	3695	3798	3902	4005	4109		
92	4213	4316	4420	4523	4627	4731	4834	4938	5041	5145		
93	5249	5352	5456	5559	5663	5766	5870	5974	6077	6181		
94	6284	6388	6491	6595	6698	6802	6905	7009	7113	7216		
95	7320	7423	7527	7630	7734	7837	7941	8044	8148	8251		
96	8355	8458	8562	8665	8769	8872	8976	9079	9183	9286		
97	9390	9493	9597	9700	9804	9907	0010	0114	0217	0321		
98	6230	0424	0528	0631	0735	0838	0942	1045	1148	1252	1355	
99	1459	1562	1666	1769	1872	1976	2079	2183	2286	2389		
Name	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 42000 L. 623

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
1200	623	2493	2596	2700	2803	2906	3010	3113	3217	3320	3423	
01		3527	3630	3734	3837	3940	4044	4147	4250	4354	4457	
02		4560	4664	4767	4870	4974	5077	5181	5284	5387	5491	
03		5594	5697	5801	5904	6007	6110	6214	6317	6420	6524	
04		6627	6730	6834	6937	7040	7144	7247	7350	7453	7557	
05		7660	7763	7867	7970	8073	8176	8280	8383	8486	8589	
06		8693	8796	8899	9002	9106	9209	9312	9415	9519	9622	
07		9725	9828	9932	0035	0138	0241	0344	0448	0551	0654	
08	624	0757	0860	0964	1067	1170	1273	1376	1480	1583	1686	
09		1789	1892	1996	2099	2202	2305	2408	2511	2615	2718	
4210		2821	2924	3027	3130	3234	3337	3440	3543	3646	3749	104
11		3852	3955	4059	4162	4265	4368	4471	4574	4677	4780	1-10
12		4884	4987	5090	5193	5296	5399	5502	5605	5708	5811	2-21
13		5915	6018	6121	6224	6327	6430	6533	6636	6739	6842	3-31
14		6945	7048	7151	7254	7357	7461	7564	7667	7770	7873	4-42
15		7976	8079	8182	8285	8388	8491	8594	8697	8800	8903	5-52
16		9006	9109	9212	9315	9418	9521	9624	9727	9830	9933	6-62
17	625	0036	0139	0242	0345	0448	0551	0654	0757	0860	0963	7-73
18		1066	1169	1272	1375	1478	1580	1683	1786	1889	1992	8-83
19		2095	2198	2301	2404	2507	2610	2713	2816	2919	3022	9-94
4220		3125	3227	3330	3433	3536	3639	3742	3845	3948	4051	
21		4154	4256	4359	4462	4565	4668	4771	4874	4977	5079	
22		5182	5285	5388	5491	5594	5697	5799	5902	6005	6108	
23		6211	6314	6416	6519	6622	6725	6828	6931	7033	7136	
24		7239	7342	7445	7547	7650	7753	7856	7959	8061	8164	
25		8267	8370	8473	8575	8678	8781	8884	8987	9089	9192	
26		9295	9398	9500	9603	9706	9809	9911	0014	0117	0220	
27	626	0322	0425	0528	0631	0733	0836	0939	1042	1144	1247	
28		1350	1452	1555	1658	1761	1863	1966	2069	2171	2274	
29		2377	2479	2582	2685	2788	2890	2993	3096	3198	3301	
4230		3404	3506	3609	3712	3814	3917	4020	4122	4225	4328	103
31		4430	4533	4635	4738	4841	4943	5046	5149	5251	5354	1-10
32		5457	5559	5662	5764	5867	5970	6072	6175	6277	6380	2-21
33		6483	6585	6688	6790	6893	6996	7098	7201	7303	7406	3-31
34		7509	7611	7714	7816	7919	8021	8124	8226	8329	8432	4-41
35		8534	8637	8739	8842	8944	9047	9149	9252	9354	9457	5-51
36		9560	9662	9765	9867	9970	0072	0175	0277	0380	0482	6-62
37	627	0585	0687	0790	0892	0995	1097	1200	1302	1405	1507	7-72
38		1610	1712	1814	1917	2019	2122	2224	2327	2429	2532	8-82
39		2634	2737	2839	2941	3044	3146	3249	3351	3454	3556	9-93
4240		3659	3761	3863	3966	4068	4171	4273	4375	4478	4580	
41		4683	4785	4887	4990	5092	5195	5297	5399	5502	5604	
42		5707	5809	5911	6014	6116	6218	6321	6423	6526	6628	
43		6730	6833	6935	7037	7140	7242	7344	7447	7549	7651	
44		7754	7856	7958	8061	8163	8265	8368	8470	8572	8675	
45		8777	8879	8982	9084	9186	9288	9391	9493	9595	9698	
46		9800	9902	0004	0107	0209	0311	0414	0516	0618	0720	
47	628	0823	0925	1027	1129	1232	1334	1436	1538	1641	1743	
48		1845	1947	2049	2152	2254	2356	2458	2561	2663	2765	
49		286	2969	3072	3174	3276	3378	3480	3583	3685	3787	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
4250	628	3889	3991	4094	4196	4298	4400	4502	4605	4707	4809	
51		4911	5013	5115	5217	5320	5422	5524	5626	5728	5830	
52		5933	6035	6137	6239	6341	6443	6545	6647	6750	6852	
53		6954	7056	7158	7260	7362	7464	7566	7669	7771	7873	
54		7975	8077	8179	8281	8383	8485	8587	8689	8791	8894	
55		8996	9098	9200	9302	9404	9506	9608	9710	9812	9914	
56	629	0016	0118	0220	0322	0424	0526	0628	0730	0832	0934	
57		1037	1138	1240	1342	1445	1547	1649	1751	1853	1955	102
58		2057	2159	2261	2362	2464	2566	2668	2770	2872	2974	
59		3076	3178	3280	3382	3484	3586	3688	3790	3892	3994	
4260		4096	4198	4300	4402	4504	4606	4708	4810	4911	5013	102
61		5115	5217	5319	5421	5523	5625	5727	5829	5931	6033	1-10
62		6134	6236	6338	6440	6542	6644	6746	6848	6950	7051	2-20
63		7153	7255	7357	7459	7561	7663	7764	7866	7968	8070	3-31
64		8172	8274	8376	8477	8579	8681	8783	8885	8987	9088	4-41
65		9190	9292	9394	9496	9598	9699	9801	9903	0005	0107	5-51
66	630	0209	0310	0412	0514	0616	0717	0819	0921	1023	1125	6-61
67		1226	1328	1430	1532	1633	1735	1837	1939	2041	2142	7-71
68		2244	2346	2448	2549	2651	2753	2855	2956	3058	3160	8-82
69		3262	3363	3465	3567	3668	3770	3872	3974	4075	4177	9-92
4270		4279	4380	4482	4584	4686	4787	4889	4991	5092	5194	
71		5296	5397	5499	5601	5702	5804	5906	6007	6109	6211	
72		6312	6414	6516	6617	6719	6821	6922	7024	7126	7227	
73		7329	7431	7532	7634	7735	7837	7939	8040	8142	8244	
74		8345	8447	8548	8650	8752	8853	8955	9056	9158	9260	
75		9361	9463	9564	9666	9767	9869	9971	0072	0174	0275	
76	631	0377	0478	0580	0682	0783	0885	0986	1088	1189	1291	
77		1393	1494	1596	1697	1799	1900	2002	2103	2205	2306	
78		2408	2509	2611	2712	2814	2915	3017	3118	3220	3321	
79		3423	3524	3626	3727	3829	3930	4032	4133	4235	4336	
4280		4438	4539	4641	4742	4843	4945	5046	5148	5249	5351	101
81		5452	5554	5655	5757	5858	5959	6061	6162	6264	6365	1-10
82		6467	6568	6669	6771	6872	6974	7075	7176	7278	7379	2-20
83		7481	7582	7683	7785	7886	7988	8089	8190	8292	8393	3-30
84		8495	8596	8697	8799	8900	9001	9103	9204	9305	9407	4-40
85		9508	9610	9711	9812	9914	0015	0116	0218	0319	0420	5-50
86	632	0522	0623	0724	0826	0927	1028	1130	1231	1332	1433	6-61
87		1535	1636	1737	1839	1940	2041	2143	2244	2345	2446	7-71
88		2548	2649	2750	2852	2953	3054	3155	3257	3358	3459	8-81
89		3560	3662	3763	3864	3965	4067	4168	4269	4370	4472	9-91
4290		4573	4674	4775	4877	4978	5079	5180	5281	5383	5484	
91		5585	5686	5788	5889	5990	6091	6192	6294	6395	6496	
92		6597	6698	6799	6901	7002	7103	7204	7305	7406	7508	
93		7609	7710	7811	7912	8013	8115	8216	8317	8418	8519	
94		8620	8721	8823	8924	9025	9126	9227	9328	9429	9531	
95		9632	9733	9834	9935	0036	0137	0238	0339	0440	0542	
96	633	0643	0744	0845	0946	1047	1148	1249	1350	1451	1552	
97		1654	1755	1856	1957	2058	2159	2260	2361	2462	2563	
98		2664	2765	2866	2967	3068	3169	3270	3371	3472	3573	
99		3674	3775	3876	3977	4078	4179	4280	4381	4483	4584	101
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
1300	633	4685	4786	4886	4987	5088	5189	5290	5391	5492	5593	101
01		5694	5795	5896	5997	6098	6199	6300	6401	6502	6603	
02		6704	6805	6906	7007	7108	7209	7310	7411	7512	7612	
03		7713	7814	7915	8016	8117	8218	8319	8420	8521	8622	
04		8723	8823	8924	9025	9126	9227	9328	9429	9530	9631	
05		9732	9832	9933	0034	0135	0236	0337	0438	0538	0639	
06	634	0740	0841	0942	1043	1144	1244	1345	1446	1547	1648	
07		1749	1850	1950	2051	2152	2253	2354	2454	2555	2656	
08		2757	2858	2959	3059	3160	3261	3362	3463	3563	3664	
09		3765	3866	3966	4067	4168	4269	4370	4470	4571	4672	
4310		4773	4873	4974	5075	5176	5276	5377	5478	5579	5679	101
11		5780	5881	5982	6082	6183	6284	6385	6485	6586	6687	1-10
12		6788	6888	6989	7090	7190	7291	7392	7492	7593	7694	2-20
13		7795	7895	7996	8097	8197	8298	8399	8499	8600	8701	3-30
14		8801	8902	9003	9103	9204	9305	9405	9506	9607	9707	4-40
15		9808	9909	0009	0110	0211	0311	0412	0512	0613	0714	5-50
16	635	0814	0915	1016	1116	1217	1317	1418	1519	1619	1720	6-61
17		1820	1921	2022	2122	2223	2323	2424	2525	2625	2726	7-71
18		2826	2927	3027	3128	3229	3329	3430	3530	3631	3731	8-81
19		3832	3933	4033	4134	4234	4335	4435	4536	4636	4737	9-91
4320		4837	4938	5038	5139	5240	5340	5441	5541	5642	5742	
21		5843	5943	6044	6144	6245	6345	6446	6546	6647	6747	
22		6848	6948	7049	7149	7249	7350	7450	7551	7651	7752	
23		7852	7953	8053	8154	8254	8355	8455	8555	8656	8756	
24		8857	8957	9058	9158	9259	9359	9459	9560	9660	9761	
25		9861	9961	0062	0162	0263	0363	0464	0564	0664	0765	
26	636	0865	0965	1066	1166	1267	1367	1467	1568	1668	1769	
27		1869	1969	2070	2170	2270	2371	2471	2571	2672	2772	
28		2873	2973	3073	3173	3274	3374	3475	3575	3675	3775	
29		3876	3976	4076	4177	4277	4377	4478	4578	4678	4779	
4330		4879	4979	5080	5180	5280	5380	5481	5581	5681	5782	100
31		5882	5982	6082	6183	6283	6383	6483	6584	6684	6784	1-10
32		6884	6985	7085	7185	7285	7386	7486	7586	7686	7787	2-20
33		7887	7987	8087	8188	8288	8388	8488	8588	8689	8789	3-30
34		8889	8989	9089	9190	9290	9390	9490	9590	9691	9791	4-40
35		9891	9991	0091	0192	0292	0392	0492	0592	0692	0793	5-50
36	637	0893	0993	1093	1193	1293	1393	1494	1594	1694	1794	6-60
37		1894	1994	2094	2195	2295	2395	2495	2595	2695	2795	7-70
38		2895	2996	3096	3196	3296	3396	3496	3596	3696	3796	8-80
39		3897	3997	4097	4197	4297	4397	4497	4597	4697	4797	9-90
4340		4897	4997	5097	5197	5297	5398	5498	5598	5698	5798	
41		5898	5998	6098	6198	6298	6398	6498	6598	6698	6798	
42		6898	6998	7098	7198	7298	7398	7498	7598	7698	7798	100
43		7898	7998	8098	8198	8298	8398	8498	8598	8698	8798	
44		8898	8998	9098	9198	9298	9398	9498	9598	9698	9798	
45		9898	9998	0098	0198	0298	0397	0497	0597	0697	0797	
46	638	0897	0997	1097	1197	1297	1397	1497	1597	1697	1796	
47		1896	1996	2096	2196	2296	2396	2496	2596	2696	2795	
48		2895	2995	3095	3195	3295	3395	3495	3594	3694	3794	
49		3894	3994	4094	4194	4294	4393	4493	4593	4693	4793	
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4350	6384893	4992	5092	5192	5292	5392	5491	5591	5691	5791		
51	5891	5991	6090	6190	6290	6390	6490	6589	6689	6789		
52	6889	6989	7088	7188	7288	7388	7488	7587	7687	7787		
53	7887	7986	8086	8186	8286	8385	8485	8585	8685	8784		
54	8884	8984	9084	9183	9283	9383	9483	9582	9682	9782		
55	9882	9981	0081	0181	0280	0380	0480	0580	0679	0779		
56	6390879	0978	1078	1178	1277	1377	1477	1577	1676	1776		
57	1876	1975	2075	2175	2274	2374	2474	2573	2673	2773		
58	2872	2972	3072	3171	3271	3370	3470	3570	3669	3769		
59	3869	3968	4068	4168	4267	4367	4466	4566	4666	4765		
4360	4865	4964	5064	5164	5263	5363	5462	5562	5662	5761		99
61	5861	5960	6060	6160	6259	6359	6458	6558	6657	6757		1-10
62	6857	6956	7056	7155	7255	7354	7454	7553	7653	7753		2-20
63	7852	7952	8051	8151	8250	8350	8449	8549	8648	8748		3-30
64	8847	8947	9046	9146	9245	9345	9444	9544	9643	9743		4-40
65	9842	9942	0041	0141	0240	0340	0439	0539	0638	0738		5-49
66	6400837	0937	1036	1136	1235	1335	1434	1534	1633	1732		6-59
67	1832	1931	2031	2130	2230	2329	2429	2528	2627	2727		7-69
68	2826	2926	3025	3125	3224	3323	3423	3522	3622	3721		8-79
69	3820	3920	4019	4119	4218	4317	4417	4516	4616	4715		9-89
4370	4814	4914	5013	5112	5212	5311	5411	5510	5609	5709		
71	5808	5907	6007	6106	6205	6305	6404	6503	6603	6702		
72	6802	6901	7000	7099	7199	7298	7397	7497	7596	7695		
73	7795	7894	7993	8093	8192	8291	8391	8490	8589	8688		
74	8788	8887	8986	9086	9185	9284	9383	9483	9582	9681		
75	9781	9880	9979	0078	0178	0277	0376	0475	0575	0674		
76	6410773	0872	0972	1071	1170	1269	1369	1468	1567	1666		
77	1765	1865	1964	2063	2162	2261	2361	2460	2559	2658		
78	2758	2857	2956	3055	3154	3253	3353	3452	3551	3650		
79	3749	3849	3948	4047	4146	4245	4344	4444	4543	4642		
4380	4741	4840	4939	5039	5138	5237	5336	5435	5534	5633		98
81	5733	5832	5931	6030	6129	6228	6327	6426	6525	6625		1-10
82	6724	6823	6922	7021	7120	7219	7318	7417	7516	7616		2-20
83	7715	7814	7913	8012	8111	8210	8309	8408	8507	8606		3-29
84	8705	8804	8904	9003	9102	9201	9300	9399	9498	9597		4-39
85	9696	9795	9894	9993	0092	0191	0290	0389	0488	0587		5-49
86	6420686	0785	0884	0983	1082	1181	1280	1379	1478	1577		6-59
87	1676	1775	1874	1973	2072	2171	2270	2369	2468	2567		7-69
88	2666	2765	2864	2963	3062	3161	3260	3359	3458	3557		8-78
89	3656	3755	3854	3953	4051	4150	4249	4348	4447	4546		9-88
4390	4645	4744	4843	4942	5041	5140	5239	5338	5437	5535		
91	5634	5733	5832	5931	6030	6129	6228	6327	6425	6524		
92	6623	6722	6821	6920	7019	7118	7217	7315	7414	7513		
93	7612	7711	7810	7909	8007	8106	8205	8304	8403	8502		
94	8601	8699	8798	8897	8996	9095	9193	9292	9391	9490		
95	9589	9688	9786	9885	9984	0083	0182	0280	0379	0478		
96	6430577	0676	0774	0873	0972	1071	1170	1268	1367	1466		
97	1565	1663	1762	1861	1960	2058	2157	2256	2355	2453		
98	2552	2651	2750	2848	2947	3046	3145	3243	3342	3441		
99	3540	3638	3737	3836	3934	4033	4132	4231	4329	4428		
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4400	643	4527	4625	4724	4823	4922	5020	5119	5218	5316	5415	
01		5514	5612	5711	5810	5908	6007	6106	6204	6303	6402	
02		6500	6599	6698	6796	6895	6994	7092	7191	7290	7388	
03		7487	7585	7684	7783	7881	7980	8079	8177	8276	8374	
04		8473	8572	8670	8769	8867	8966	9065	9163	9262	9360	
05		9459	9558	9656	9755	9853	9952	0051	0149	0248	0346	
06	644	0445	0543	0642	0741	0839	0938	1036	1135	1233	1332	
07		1431	1529	1628	1726	1825	1923	2022	2120	2219	2317	
08		2416	2514	2613	2711	2810	2908	3007	3105	3204	3302	
09		3401	3499	3598	3696	3795	3893	3992	4090	4189	4287	
110		4386	4484	4583	4681	4780	4878	4977	5075	5174	5272	99
11		5371	5469	5567	5666	5764	5863	5961	6060	6158	6257	1-10
12		6355	6453	6552	6650	6749	6847	6946	7044	7142	7241	2-20
13		7339	7438	7536	7634	7733	7831	7930	8028	8126	8225	3-30
14		8323	8422	8520	8618	8717	8815	8914	9012	9110	9209	4-40
15		9307	9405	9504	9602	9700	9799	9897	9996	0094	0192	5-49
16	645	0291	0389	0487	0586	0684	0782	0881	0979	1077	1176	6-59
17		1274	1372	1471	1569	1667	1766	1864	1962	2060	2159	7-69
18		2257	2355	2454	2552	2650	2749	2847	2945	3043	3142	8-79
19		3240	3338	3437	3535	3633	3731	3830	3928	4026	4124	9-89
420		4223	4321	4419	4517	4616	4714	4812	4910	5009	5107	
21		5205	5303	5402	5500	5598	5696	5794	5893	5991	6089	
22		6187	6285	6384	6482	6580	6678	6777	6875	6973	7071	
23		7169	7268	7366	7464	7562	7660	7758	7857	7955	8053	
24		8151	8249	8347	8446	8544	8642	8740	8838	8936	9035	
25		9133	9231	9329	9427	9525	9623	9722	9820	9918	0016	
26	646	0114	0212	0310	0408	0507	0605	0703	0801	0899	0997	
27		1095	1193	1291	1389	1488	1586	1684	1782	1880	1978	
28		2076	2174	2272	2370	2468	2566	2665	2763	2861	2959	
29		3057	3155	3253	3351	3449	3547	3645	3743	3841	3939	
4430		4037	4135	4233	4331	4429	4527	4625	4723	4821	4919	98
31		5018	5115	5213	5311	5409	5507	5605	5703	5801	5899	1-10
32		5997	6095	6193	6291	6389	6487	6585	6683	6781	6879	2-20
33		6977	7075	7173	7271	7369	7467	7565	7663	7761	7859	3-29
34		7957	8055	8153	8251	8349	8447	8544	8642	8740	8838	4-39
35		8936	9034	9132	9230	9328	9426	9524	9622	9720	9817	5-49
36		9915	0013	0111	0209	0307	0405	0503	0601	0699	0796	6-59
37	647	0894	0992	1090	1188	1286	1384	1481	1579	1677	1775	7-69
38		1873	1971	2069	2166	2264	2362	2460	2558	2656	2754	8-78
39		2851	2949	3047	3145	3243	3341	3438	3536	3634	3732	9-88
440		3830	3927	4025	4123	4221	4319	4416	4514	4612	4710	
41		4808	4905	5003	5101	5199	5297	5394	5492	5590	5688	
42		5786	5883	5981	6079	6177	6274	6372	6470	6568	6665	
43		6763	6861	6959	7056	7154	7252	7350	7447	7545	7643	
44		7741	7838	7936	8034	8131	8229	8327	8424	8522	8620	
45		8718	8815	8913	9011	9108	9206	9304	9401	9499	9597	
46		9695	9792	9890	9988	0085	0183	0281	0378	0476	0574	
47	648	0671	0769	0867	0964	1062	1160	1257	1355	1452	1550	
48		1648	1745	1843	1941	2038	2136	2234	2331	2429	2526	
49		2624	2722	2819	2917	3014	3112	3210	3307	3405	3502	
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51		4576	4673	4771	4869	4966	5064	5161	5259	5356	5454
52		5552	5649	5747	5844	5942	6039	6137	6234	6332	6429
53		6527	6624	6722	6819	6917	7015	7112	7210	7307	7405
54		7502	7600	7697	7795	7892	7990	8087	8185	8282	8380
55		8477	8575	8672	8769	8867	8964	9062	9159	9257	9354
56		9452	9549	9647	9744	9842	9939	0036	0134	0231	0329
57	649	0426	0524	0621	0719	0816	0913	1011	1108	1206	1303
58		1401	1498	1595	1693	1790	1888	1985	2082	2180	2277
59		2375	2472	2569	2667	2764	2862	2959	3056	3154	3251
4460		3349	3446	3543	3641	3738	3835	3933	4030	4127	4225
61		4322	4420	4517	4614	4712	4809	4906	5004	5101	5198
62		5296	5393	5490	5588	5685	5782	5880	5977	6074	6172
63		6269	6366	6463	6561	6658	6755	6853	6950	7047	7145
64		7242	7339	7436	7534	7631	7728	7825	7923	8020	8117
65		8215	8312	8409	8506	8604	8701	8798	8895	8993	9090
66		9187	9284	9382	9479	9576	9673	9771	9868	9965	0062
67	650	0160	0257	0354	0451	0548	0646	0743	0840	0937	1034
68		1132	1229	1326	1423	1520	1618	1715	1812	1909	2006
69		2104	2201	2298	2395	2492	2589	2687	2784	2881	2978
4470		3075	3172	3269	3367	3464	3561	3658	3755	3852	3950
71		4047	4144	4241	4338	4435	4532	4629	4727	4824	4921
72		5018	5115	5212	5309	5406	5503	5601	5698	5795	5892
73		5989	6086	6183	6280	6377	6474	6571	6669	6766	6863
74		6960	7057	7154	7251	7348	7445	7542	7639	7736	7833
75		7930	8027	8124	8221	8319	8416	8513	8610	8707	8804
76		8901	8998	9095	9192	9289	9386	9483	9580	9677	9774
77		9871	9968	0065	0162	0259	0356	0453	0550	0647	0744
78	651	0841	0938	1035	1132	1229	1326	1423	1520	1617	1714
79		1811	1908	2004	2101	2198	2295	2392	2489	2586	2683
4480		2780	2877	2974	3071	3168	3265	3362	3459	3556	3652
81		3749	3846	3943	4040	4137	4234	4331	4428	4525	4622
82		4719	4815	4912	5009	5106	5203	5300	5397	5494	5590
83		5687	5784	5881	5978	6075	6172	6269	6365	6462	6559
84		6656	6753	6850	6947	7043	7140	7237	7334	7431	7528
85		7624	7721	7818	7915	8012	8109	8205	8302	8399	8496
86		8593	8689	8786	8883	8980	9077	9173	9270	9367	9464
87		9561	9657	9754	9851	9948	0045	0141	0238	0335	0432
88	652	0528	0625	0722	0819	0915	1012	1109	1206	1303	1399
89		1406	1503	1609	1706	1803	1900	2006	2103	2200	2307
4490		2403	2500	2607	2704	2801	2907	3004	3101	3207	3304
91		3401	3507	3604	3701	3807	3904	4001	4107	4204	4301
92		4397	4494	4591	4687	4784	4881	4977	5074	5171	5267
93		5364	5461	5557	5654	5751	5847	5944	6041	6137	6234
94		6331	6427	6524	6621	6717	6814	6910	7007	7104	7200
95		7297	7394	7490	7587	7683	7780	7877	7973	8070	8166
96		8263	8360	8456	8553	8649	8746	8843	8939	9036	9132
97		9229	9325	9422	9519	9615	9712	9808	9905	0001	0098
98	653	0195	0291	0388	0484	0581	0677	0774	0870	0967	1063
99		1160	1256	1353	1449	1546	1643	1739	1836	1932	2029
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97  
1-10  
2-19  
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96  
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9-86

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4500	653	2125	2222	2318	2415	2511	2608	2704	2801	2897	2994	
01		3090	3187	3283	3380	3476	3572	3669	3765	3862	3958	
02		4055	4151	4248	4344	4441	4537	4634	4730	4827	4923	
03		5019	5116	5212	5309	5405	5502	5598	5694	5791	5887	
04		5984	6080	6177	6273	6369	6466	6562	6659	6755	6851	
05		6948	7044	7141	7237	7333	7430	7526	7623	7719	7815	
06		7912	8008	8105	8201	8297	8394	8490	8586	8683	8779	
07		8876	8972	9068	9165	9261	9357	9454	9550	9646	9743	
08		9839	9935	0032	0128	0224	0321	0417	0513	0610	0706	
09	654	0802	0899	0995	1091	1188	1284	1380	1476	1573	1669	
4510		1765	1862	1958	2054	2151	2247	2343	2439	2536	2632	
11		2728	2824	2921	3017	3113	3210	3306	3402	3498	3595	97
12		3691	3787	3883	3980	4076	4172	4268	4365	4461	4557	1-10
13		4653	4750	4846	4942	5038	5134	5231	5327	5423	5519	2-19
14		5616	5712	5808	5904	6000	6097	6193	6289	6385	6481	3-29
15		6578	6674	6770	6866	6962	7058	7155	7251	7347	7443	4-39
16		7539	7635	7732	7828	7924	8020	8116	8212	8309	8405	5-48
17		8501	8597	8693	8789	8885	8982	9078	9174	9270	9366	6-58
18		9462	9558	9654	9751	9847	9943	0039	0135	0231	0327	7-68
19	655	0423	0519	0616	0712	0808	0904	1000	1096	1192	1288	8-78
4520		1384	1480	1576	1673	1769	1865	1961	2057	2153	2249	9-87
21		2345	2441	2537	2633	2729	2825	2921	3017	3113	3209	
22		3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	
23		4266	4362	4458	4554	4650	4746	4842	4938	5034	5130	
24		5226	5322	5418	5514	5610	5706	5802	5898	5994	6090	
25		6186	6282	6378	6474	6570	6666	6762	6858	6954	7049	
26		7145	7241	7337	7433	7529	7625	7721	7817	7913	8009	
27		8105	8201	8297	8393	8489	8585	8680	8776	8872	8968	
28		9064	9160	9256	9352	9448	9544	9640	9735	9831	9927	
29	656	0023	0119	0215	0311	0407	0503	0598	0694	0790	0886	
4530		0982	1078	1174	1270	1365	1461	1557	1653	1749	1845	
31		1941	2036	2132	2228	2324	2420	2516	2611	2707	2803	
32		2899	2995	3091	3186	3282	3378	3474	3570	3666	3761	
33		3857	3953	4049	4145	4240	4336	4432	4528	4624	4719	
34		4815	4911	5007	5102	5198	5294	5390	5486	5581	5677	
35		5773	5869	5964	6060	6156	6252	6347	6443	6539	6635	
36		6730	6826	6922	7018	7113	7209	7305	7401	7496	7592	
37		7688	7783	7879	7975	8071	8166	8262	8358	8453	8549	
38		8645	8741	8836	8932	9028	9123	9219	9315	9410	9506	
39		9602	9697	9793	9889	9984	0080	0176	0271	0367	0463	
4540	657	0559	0654	0750	0845	0941	1037	1132	1228	1324	1419	
41		1515	1611	1706	1802	1898	1993	2089	2184	2280	2376	
42		2471	2567	2662	2758	2854	2949	3045	3141	3236	3332	
43		3427	3523	3619	3714	3810	3905	4001	4096	4192	4288	
44		4383	4479	4574	4670	4765	4861	4957	5052	5148	5243	
45		5339	5434	5530	5625	5721	5817	5912	6008	6103	6199	
46		6294	6390	6485	6581	6676	6772	6867	6963	7058	7154	
47		7250	7345	7441	7536	7632	7727	7823	7918	8014	8109	
48		8205	8300	8395	8491	8586	8682	8777	8873	8968	9064	
49		9159	9255	9350	9446	9541	9637	9732	9828	9923	0018	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 45500 L.658

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
4550	6580114	0209	0305	0400	0496	0591	0687	0782	0877	0973		
51	1068	1164	1259	1355	1450	1545	1641	1736	1832	1927		
52	2023	2118	2213	2309	2404	2499	2595	2690	2786	2881		
53	2977	3072	3167	3263	3358	3453	3549	3644	3739	3835		
54	3930	4026	4121	4216	4312	4407	4502	4598	4693	4788		
55	4884	4979	5074	5170	5265	5360	5456	5551	5646	5742		
56	5837	5932	6028	6123	6218	6314	6409	6504	6600	6695		
57	6790	6886	6981	7076	7171	7267	7362	7457	7553	7648		
58	7743	7838	7934	8029	8124	8220	8315	8410	8505	8601		
59	8696	8791	8886	8982	9077	9172	9267	9363	9458	9553		
4560	9648	9744	9839	9934	0029	0125	0220	0315	0410	0505		95
61	6590601	0696	0791	0886	0982	1077	1172	1267	1362	1458		1—9
62	1553	1648	1743	1838	1934	2029	2124	2219	2314	2409		2—19
63	2505	2600	2695	2790	2885	2980	3076	3171	3266	3361		3—28
64	3456	3551	3647	3742	3837	3932	4027	4122	4217	4313		4—38
65	4408	4503	4598	4693	4788	4883	4979	5074	5169	5264		5—47
66	5359	5454	5549	5644	5739	5835	5930	6025	6120	6215		6—57
67	6310	6405	6500	6595	6690	6786	6881	6976	7071	7166		7—66
68	7261	7356	7451	7546	7641	7736	7831	7926	8021	8116		8—76
69	8212	8307	8402	8497	8592	8687	8782	8877	8972	9067		9—85
4570	9162	9257	9352	9447	9542	9637	9732	9827	9922	0017		
71	6600112	0207	0302	0397	0492	0587	0682	0777	0872	0967	95	
72	1062	1157	1252	1347	1442	1537	1632	1727	1822	1917		
73	2012	2107	2202	2297	2392	2487	2582	2677	2772	2867		
74	2962	3056	3151	3246	3341	3436	3531	3626	3721	3816		
75	3911	4006	4101	4196	4291	4386	4480	4575	4670	4765		
76	4860	4955	5050	5145	5240	5335	5430	5524	5619	5714		
77	5809	5904	5999	6094	6189	6283	6378	6473	6568	6663		
78	6758	6853	6948	7042	7137	7232	7327	7422	7517	7612		
79	7706	7801	7896	7991	8086	8181	8275	8370	8465	8560		
4580	8655	8750	8844	8939	9034	9129	9224	9318	9413	9508		94
81	9603	9698	9792	9887	9982	0077	0172	0266	0361	0456		1—9
82	6610551	0646	0740	0835	0930	1025	1119	1214	1309	1404		2—19
83	1499	1593	1688	1783	1878	1972	2067	2162	2257	2351		3—28
84	2446	2541	2636	2730	2825	2920	3014	3109	3204	3299		4—38
85	3393	3488	3583	3677	3772	3867	3962	4056	4151	4246		5—47
86	4341	4435	4530	4625	4719	4814	4909	5003	5098	5193		6—56
87	5287	5382	5477	5571	5666	5761	5855	5950	6045	6139		7—66
88	6234	6329	6423	6518	6613	6707	6802	6897	6991	7086		8—75
89	7181	7275	7370	7464	7559	7654	7748	7843	7938	8032		9—85
4590	8127	8221	8316	8411	8505	8600	8694	8789	8884	8978		
91	9073	9167	9262	9357	9451	9546	9640	9735	9830	9924		
92	6620019	0113	0208	0302	0397	0492	0586	0681	0775	0870		
93	0964	1059	1154	1248	1343	1437	1532	1626	1721	1815		
94	1910	2004	2099	2193	2288	2383	2477	2572	2666	2761		
95	2855	2950	3044	3139	3233	3328	3422	3517	3611	3706		
96	3800	3895	3989	4084	4178	4273	4367	4462	4556	4651		
97	4745	4839	4934	5028	5123	5217	5312	5406	5501	5595		
98	5690	5784	5879	5973	6067	6162	6256	6351	6445	6540		
99	6634	6728	6823	6917	7012	7106	7201	7295	7389	7484		
Num	0	1	2	3	4	5	6	7	8	9	D	Pts.

N. 46000 L.662

Num	0	1	2	3	4	5	6	7	8	9	D	Pro
4600	662	7578	7673	7767	7861	7956	8050	8145	8239	8333	8428	
01		8522	8617	8711	8805	8900	8994	9089	9183	9277	9372	
02		9466	9560	9655	9749	9844	9938	0032	0127	0221	0315	
03	663	0410	0504	0598	0693	0787	0881	0976	1070	1164	1259	
04		1353	1447	1542	1636	1730	1825	1919	2013	2108	2202	
05		2296	2391	2485	2579	2674	2768	2862	2956	3051	3145	
06		3239	3334	3428	3522	3616	3711	3805	3899	3994	4088	
07		4182	4276	4371	4465	4559	4653	4748	4842	4936	5030	
08		5125	5219	5313	5407	5502	5596	5690	5784	5879	5973	
09		6067	6161	6255	6350	6444	6538	6632	6727	6821	6915	
4610		7009	7103	7198	7292	7386	7480	7574	7669	7763	7857	93
11		7951	8045	8140	8234	8328	8422	8516	8610	8705	8799	1-9
12		8893	8987	9081	9175	9270	9364	9458	9552	9646	9740	2-19
13		9835	9929	0023	0117	0211	0305	0399	0493	0588	0682	3-28
14	664	0776	0870	0964	1058	1152	1246	1341	1435	1529	1623	4-38
15		1717	1811	1905	1999	2093	2187	2282	2376	2470	2564	5-47
16		2658	2752	2846	2940	3034	3128	3222	3316	3411	3505	6-57
17		3599	3693	3787	3881	3975	4069	4163	4257	4351	4445	7-66
18		4539	4633	4727	4821	4915	5009	5103	5197	5292	5386	8-76
19		5480	5574	5668	5762	5856	5950	6044	6138	6232	6326	9-85
4620		6420	6514	6608	6702	6796	6890	6984	7078	7172	7266	94
21		7360	7454	7548	7642	7736	7830	7923	8017	8111	8205	
22		8299	8393	8487	8581	8675	8769	8863	8957	9051	9145	
23		9239	9333	9427	9521	9615	9709	9802	9896	9990	0084	
24	665	0178	0272	0366	0460	0554	0648	0742	0836	0930	1023	
25		1117	1211	1305	1399	1493	1587	1681	1775	1868	1962	
26		2056	2150	2244	2338	2432	2526	2619	2713	2807	2901	
27		2995	3089	3183	3277	3370	3464	3558	3652	3746	3840	
28		3934	4027	4121	4215	4309	4403	4496	4590	4684	4778	
29		4872	4966	5059	5153	5247	5341	5435	5528	5622	5716	
4630		5810	5904	5997	6091	6185	6279	6373	6466	6560	6654	94
31		6748	6842	6935	7029	7123	7217	7310	7404	7498	7592	1-9
32		7686	7779	7873	7967	8060	8154	8248	8342	8435	8529	2-19
33		8623	8717	8810	8904	8998	9092	9185	9279	9373	9467	3-28
34		9560	9654	9748	9841	9935	0029	0123	0216	0310	0404	4-38
35	666	0497	0591	0685	0778	0872	0966	1059	1153	1247	1341	5-47
36		1434	1528	1622	1715	1809	1903	1996	2090	2184	2277	6-56
37		2371	2465	2558	2652	2746	2839	2933	3026	3120	3214	7-66
38		3307	3401	3495	3588	3682	3776	3869	3963	4056	4150	8-75
39		4244	4337	4431	4525	4618	4712	4805	4899	4993	5086	9-85
4640		5180	5273	5367	5461	5554	5648	5741	5835	5928	6022	
41		6116	6209	6303	6396	6490	6583	6677	6771	6864	6958	
42		7051	7145	7238	7332	7426	7519	7613	7706	7800	7893	
43		7987	8080	8174	8267	8361	8454	8548	8641	8735	8829	
44		8922	9016	9109	9203	9296	9390	9483	9577	9670	9764	
45		9857	9951	0044	0138	0231	0325	0418	0512	0605	0699	
46	667	0792	0885	0979	1072	1166	1259	1353	1446	1540	1633	
47		1727	1820	1914	2007	2100	2194	2287	2381	2474	2568	
48		2661	2755	2848	2941	3035	3128	3222	3315	3409	3502	
49		3595	3689	3782	3876	3969	4062	4156	4249	4343	4436	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts
4650	607	4530	4623	4716	4810	4903	4996	5090	5183	5277	5370	
51	5463	5557	5650	5743	5837	5930	6024	6117	6210	6304		
52	6397	6490	6584	6677	6770	6864	6957	7050	7144	7237		
53	7331	7424	7517	7610	7704	7797	7890	7984	8077	8170		
54	8264	8357	8450	8544	8637	8730	8824	8917	9010	9104		
55	9197	9290	9383	9477	9570	9663	9757	9850	9943	0036		
56	668	0130	0223	0316	0409	0503	0596	0689	0783	0876	0969	
57	1062	1156	1249	1342	1435	1529	1622	1715	1808	1902		
58	1995	2088	2181	2274	2368	2461	2554	2647	2741	2834		
59	2927	3020	3113	3207	3300	3393	3486	3580	3673	3766		
4660	3859	3952	4045	4139	4232	4325	4418	4511	4605	4698		93
61	4791	4884	4977	5070	5164	5257	5350	5443	5536	5629		1—9
62	5723	5816	5909	6002	6095	6188	6282	6375	6468	6561		2—19
63	6654	6747	6840	6934	7027	7120	7213	7306	7399	7492		3—28
64	7585	7678	7772	7865	7958	8051	8144	8237	8330	8423		4—37
65	8516	8610	8703	8796	8889	8982	9075	9168	9261	9354		5—46
66	9447	9540	9633	9727	9820	9913	0006	0099	0192	0285		6—56
67	669	0378	0471	0564	0657	0750	0843	0936	1029	1122	1215	7—65
68	1308	1401	1494	1588	1681	1774	1867	1960	2053	2146		8—74
69	2239	2332	2425	2518	2611	2704	2797	2890	2983	3076	93	9—84
4670	3169	3262	3355	3448	3541	3634	3727	3820	3913	4006		
71	4099	4192	4285	4378	4471	4563	4656	4749	4842	4935		
72	5028	5121	5214	5307	5400	5493	5586	5679	5772	5865		
73	5958	6051	6144	6237	6329	6422	6515	6608	6701	6794		
74	6887	6980	7073	7166	7259	7352	7444	7537	7630	7723		
75	7816	7909	8002	8095	8188	8281	8373	8466	8559	8652		
76	8745	8838	8931	9024	9116	9209	9302	9395	9488	9581		
77	9674	9766	9859	9952	0045	0138	0231	0324	0416	0509		
78	670	0602	0695	0788	0881	0973	1066	1159	1252	1345	1438	
79	1530	1623	1716	1809	1902	1994	2087	2180	2273	2366		
4680	2459	2551	2644	2737	2830	2922	3015	3108	3201	3294		92
81	3386	3479	3572	3665	3757	3850	3943	4036	4129	4221		1—9
82	4314	4407	4500	4592	4685	4778	4871	4963	5056	5149		2—18
83	5242	5334	5427	5520	5612	5705	5798	5891	5983	6076		3—28
84	6169	6262	6354	6447	6540	6632	6725	6818	6910	7003		4—37
85	7096	7189	7281	7374	7467	7559	7652	7745	7837	7930		5—46
86	8023	8115	8208	8301	8393	8486	8579	8671	8764	8857		6—55
87	8950	9042	9135	9227	9320	9413	9505	9598	9691	9783		7—64
88	9876	9969	0061	0154	0247	0339	0432	0524	0617	0710		8—74
89	671	0802	0895	0988	1080	1173	1265	1358	1451	1543	1636	9—83
4690	1728	1821	1914	2006	2099	2191	2284	2377	2469	2562		
91	2654	2747	2839	2932	3025	3117	3210	3302	3395	3487		
92	3580	3673	3765	3858	3950	4043	4135	4228	4320	4413		
93	4506	4598	4691	4783	4876	4968	5061	5153	5246	5338		
94	5431	5523	5616	5708	5801	5893	5986	6078	6171	6263		
95	6356	6448	6541	6633	6726	6818	6911	7003	7096	7188		
96	7281	7373	7466	7558	7651	7743	7836	7928	8021	8113		
97	8206	8298	8390	8483	8575	8668	8760	8853	8945	9038		
98	9130	9222	9315	9407	9500	9592	9685	9777	9870	9962		
99	672	0054	0147	0239	0332	0424	0516	0609	0701	0794	0886	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.
4700	072	0979	1071	1163	1256	1348	1441	1533	1625	1718	1810	
01	1903	1995	2087	2180	2272	2364	2457	2549	2641	2734		
02	2826	2919	3011	3103	3196	3288	3380	3473	3565	3657		
03	3750	3842	3934	4027	4119	4211	4304	4396	4488	4581		
04	4673	4765	4858	4950	5042	5135	5227	5319	5412	5504		
05	5596	5689	5781	5873	5965	6058	6150	6242	6335	6427		
06	6519	6611	6704	6796	6888	6981	7073	7165	7257	7350		
07	7442	7534	7626	7719	7811	7903	7995	8088	8180	8272		
08	8365	8457	8549	8641	8733	8826	8918	9010	9102	9195		
09	9287	9379	9471	9564	9656	9748	9840	9932	0025	0117		
4710	673	0209	0301	0393	0486	0578	0670	0762	0854	0947	1039	93
11	1131	1223	1315	1408	1500	1592	1684	1776	1868	1961		1—9
12	2053	2145	2237	2329	2421	2514	2606	2698	2790	2882		2—19
13	2974	3066	3159	3251	3343	3435	3527	3619	3711	3804		3—28
14	3896	3988	4080	4172	4264	4356	4448	4541	4633	4725		4—37
15	4817	4909	5001	5093	5185	5277	5370	5462	5554	5646		5—46
16	5738	5830	5922	6014	6106	6198	6290	6382	6475	6567		6—56
17	6659	6751	6843	6935	7027	7119	7211	7303	7395	7487		7—65
18	7579	7671	7763	7855	7947	8040	8132	8224	8316	8408		8—74
19	8500	8592	8684	8776	8868	8960	9052	9144	9236	9328	92	9—84
4720	9420	9512	9604	9696	9788	9880	9972	0064	0156	0248		
21	674	0340	0432	0524	0616	0708	0800	0892	0984	1076	1168	
22	1200	1352	1444	1536	1628	1720	1812	1904	1995	2087		
23	2179	2271	2363	2455	2547	2639	2731	2823	2915	3007		
24	3099	3191	3283	3375	3467	3558	3650	3742	3834	3926		
25	4018	4110	4202	4294	4386	4478	4570	4661	4753	4845		
26	4937	5029	5121	5213	5305	5397	5488	5580	5672	5764		
27	5856	5948	6040	6132	6223	6315	6407	6499	6591	6683		
28	6775	6866	6958	7050	7142	7234	7326	7418	7509	7601		
29	7693	7785	7877	7969	8060	8152	8244	8336	8428	8520		
4730	8611	8703	8795	8887	8979	9070	9162	9254	9346	9438	92	
31	9529	9621	9713	9805	9897	9988	0080	0172	0264	0356		1—9
32	675	0447	0539	0631	0723	0814	0906	0998	1090	1181	1273	2—18
33	1365	1457	1549	1640	1732	1824	1916	2007	2099	2191		3—28
34	2283	2374	2466	2558	2649	2741	2833	2925	3016	3108		4—37
35	3200	3292	3383	3475	3567	3658	3750	3842	3933	4025		5—46
36	4117	4209	4300	4392	4484	4575	4667	4759	4850	4942		6—55
37	5034	5125	5217	5309	5401	5492	5584	5676	5767	5859		7—64
38	5951	6042	6134	6225	6317	6409	6500	6592	6684	6775		8—74
39	6867	6959	7050	7142	7234	7325	7417	7508	7600	7692		9—83
4740	7783	7875	7967	8058	8150	8241	8333	8425	8516	8608		
41	8700	8791	8883	8974	9066	9157	9249	9341	9432	9524		
42	9615	9707	9799	9890	9982	0073	0165	0256	0348	0440		
43	676	0531	0623	0714	0806	0897	0989	1081	1172	1264	1355	
44	1447	1538	1630	1721	1813	1904	1996	2088	2179	2271		
45	2362	2454	2545	2637	2728	2820	2911	3003	3094	3186		
46	3277	3369	3460	3552	3643	3735	3826	3918	4009	4101		
47	4192	4284	4375	4467	4558	4650	4741	4833	4924	5016		
48	5107	5199	5290	5381	5473	5564	5656	5747	5839	5930		
49	6022	6113	6205	6296	6387	6479	6570	6662	6753	6845		
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
4750	0706936	7027	7119	7210	7302	7393	7485	7576	7667	7759		
51	7850	7942	8033	8124	8216	8307	8399	8490	8581	8673		
52	8764	8856	8947	9038	9130	9221	9313	9404	9495	9587		
53	9678	9769	9861	9952	0044	0135	0226	0318	0409	0500		
54	6770592	0683	0774	0866	0957	1048	1140	1231	1322	1414		
55	1505	1596	1688	1779	1870	1962	2053	2144	2236	2327		
56	2418	2510	2601	2692	2784	2875	2966	3058	3149	3240		
57	3332	3423	3514	3605	3697	3788	3879	3970	4062	4153		
58	4244	4336	4427	4518	4609	4701	4792	4883	4974	5066		
59	5157	5248	5340	5431	5522	5613	5705	5796	5887	5978		
4760	6070	6161	6252	6343	6434	6526	6617	6708	6799	6891		
61	6982	7073	7164	7255	7347	7438	7529	7620	7711	7803		91
62	7894	7985	8076	8167	8259	8350	8441	8532	8623	8715		1-18
63	8806	8897	8988	9079	9170	9262	9353	9444	9535	9626		2-18
64	9718	9809	9900	9991	0082	0173	0264	0356	0447	0538		3-27
65	6780629	0720	0811	0902	0994	1085	1176	1267	1358	1449		4-36
66	1540	1631	1723	1814	1905	1996	2087	2178	2269	2360		5-45
67	2452	2543	2634	2725	2816	2907	2998	3089	3180	3271		6-55
68	3362	3454	3545	3636	3727	3818	3909	4000	4091	4182		7-64
69	4273	4364	4455	4546	4637	4728	4820	4911	5002	5093		8-73
4770	5184	5275	5366	5457	5548	5639	5730	5821	5912	6003		9-82
71	6094	6185	6276	6367	6458	6549	6640	6731	6822	6913		
72	7004	7095	7186	7277	7368	7459	7550	7641	7732	7823		91
73	7914	8005	8096	8187	8278	8369	8460	8551	8642	8733		
74	8824	8915	9006	9097	9188	9279	9370	9461	9552	9643		
75	9734	9825	9916	0007	0098	0188	0279	0370	0461	0552		
76	6790643	0734	0825	0916	1007	1098	1189	1280	1371	1461		
77	1552	1643	1734	1825	1916	2007	2098	2189	2280	2371		
78	2461	2552	2643	2734	2825	2916	3007	3098	3189	3279		
79	3370	3461	3552	3643	3734	3825	3915	4006	4097	4188		
4780	4279	4370	4461	4551	4642	4733	4824	4915	5006	5097		
81	5187	5278	5369	5460	5551	5642	5732	5823	5914	6005		90
82	6096	6186	6277	6368	6459	6550	6641	6731	6822	6913		1-9
83	7004	7095	7185	7276	7367	7458	7549	7639	7730	7821		2-18
84	7912	8002	8093	8184	8275	8366	8456	8547	8638	8729		3-27
85	8819	8910	9001	9092	9182	9273	9364	9455	9545	9636		4-36
86	9727	9818	9908	9999	0090	0181	0271	0362	0453	0544		5-45
87	6800634	0725	0816	0906	0997	1088	1179	1269	1360	1451		6-54
88	1541	1632	1723	1813	1904	1995	2086	2176	2267	2358		7-63
89	2448	2539	2630	2720	2811	2902	2992	3083	3174	3264		8-72
4790	3355	3446	3536	3627	3718	3808	3899	3990	4080	4171		9-81
91	4262	4352	4443	4534	4624	4715	4806	4896	4987	5077		
92	5168	5259	5349	5440	5531	5621	5712	5802	5893	5984		
93	6074	6165	6255	6346	6437	6527	6618	6708	6799	6890		
94	6980	7071	7161	7252	7343	7433	7524	7614	7705	7795		
95	7886	7977	8067	8158	8248	8339	8429	8520	8611	8701		
96	8792	8882	8973	9063	9154	9244	9335	9426	9516	9607		
97	9697	9788	9878	9969	0059	0150	0240	0331	0421	0512		
98	6810602	0693	0783	0874	0964	1055	1145	1236	1326	1417		
99	1507	1598	1688	1779	1869	1960	2050	2141	2231	2322		
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8000	081	2412	2503	2593	2684	2774	2865	2955	3046	3136	3227	
01	3317	3407	3498	3588	3679	3769	3860	3950	4041	4131		
02	4222	4312	4402	4493	4583	4674	4764	4855	4945	5035		
03	5126	5216	5307	5397	5487	5578	5668	5759	5849	5940		
04	6030	6120	6211	6301	6392	6482	6572	6663	6753	6843		
05	6934	7024	7115	7205	7295	7386	7476	7567	7657	7747		
06	7838	7928	8018	8109	8199	8289	8380	8470	8560	8651		
07	8741	8832	8922	9012	9103	9193	9283	9374	9464	9554		
08	9645	9735	9825	9916	0006	0096	0186	0277	0367	0457		
09	6820	0548	0638	0728	0819	0909	0999	1090	1180	1270	1360	
4810	1451	1541	1631	1722	1812	1902	1992	2083	2173	2263		91
11	2354	2444	2534	2624	2715	2805	2895	2985	3076	3166		1—9
12	3456	3346	3437	3527	3617	3707	3798	3888	3978	4068		2—18
13	4159	4249	4339	4429	4519	4610	4700	4790	4880	4971		3—27
14	5061	5151	5241	5331	5422	5512	5602	5692	5782	5873		4—36
15	5963	6053	6143	6233	6324	6414	6504	6594	6684	6775		5—45
16	6865	6955	7045	7135	7225	7316	7406	7496	7586	7676		6—55
17	7766	7857	7947	8037	8127	8217	8307	8397	8488	8578		7—64
18	8668	8758	8848	8938	9028	9119	9209	9299	9389	9479		8—73
19	9569	9659	9749	9840	9930	0020	0110	0200	0290	0380		9—82
4820	6830	0470	0560	0651	0741	0831	0921	1011	1101	1191	1281	
21	1371	1461	1551	1642	1732	1822	1912	2002	2092	2182		
22	2272	2362	2452	2542	2632	2722	2812	2902	2992	3083		
23	3173	3263	3353	3443	3533	3623	3713	3803	3893	3983		
24	4073	4163	4253	4343	4433	4523	4613	4703	4793	4883	90	
25	4973	5063	5153	5243	5333	5423	5513	5603	5693	5783		
26	5873	5963	6053	6143	6233	6323	6413	6503	6593	6683		
27	6773	6863	6953	7043	7133	7223	7313	7403	7493	7583		
28	7673	7763	7852	7942	8032	8122	8212	8302	8392	8482		
29	8572	8662	8752	8842	8932	9022	9112	9202	9291	9381		
4830	9471	9561	9651	9741	9831	9921	0011	0101	0191	0280		90
31	6840	0370	0460	0550	0640	0730	0820	0910	1000	1089	1179	1—9
32	1269	1359	1449	1539	1629	1719	1808	1898	1988	2078		2—18
33	2168	2258	2348	2437	2527	2617	2707	2797	2887	2977		3—27
34	3066	3156	3246	3336	3426	3516	3605	3695	3785	3875		4—36
35	3965	4055	4144	4234	4324	4414	4504	4593	4683	4773		5—45
36	4863	4953	5043	5132	5222	5312	5402	5491	5581	5671		6—54
37	5761	5851	5940	6030	6120	6210	6300	6389	6479	6569		7—63
38	6659	6748	6838	6928	7018	7107	7197	7287	7377	7466		8—72
39	7556	7646	7736	7825	7915	8005	8095	8184	8274	8364		9—81
4840	8454	8543	8633	8723	8812	8902	8992	9082	9171	9261		
41	9351	9440	9530	9620	9710	9799	9889	9979	0068	0158		
42	6850	0248	0337	0427	0517	0607	0696	0786	0876	0965	1055	
43	1145	1234	1324	1414	1503	1593	1683	1772	1862	1952		
44	2041	2131	2221	2310	2400	2490	2579	2669	2758	2848		
45	2938	3027	3117	3207	3296	3386	3476	3565	3655	3744		
46	3834	3924	4013	4103	4193	4282	4372	4461	4551	4641		
47	4730	4820	4909	4999	5089	5178	5268	5357	5447	5536		
48	5626	5716	5805	5895	5984	6074	6164	6253	6343	6432		
49	6522	6611	6701	6790	6880	6970	7059	7149	7238	7328		
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Num	0	1	2	3	4	5	6	7	8	9	D Pts.	
4850	685	7417	7507	7596	7686	7776	7865	7955	8044	8134	8223	
51		8313	8402	8492	8581	8671	8760	8850	8939	9029	9118	
52		9208	9297	9387	9476	9566	9655	9745	9834	9924	0013	
53	686	0103	0192	0282	0371	0461	0550	0640	0729	0819	0908	
54		0998	1087	1177	1266	1356	1445	1534	1624	1713	1803	
55		1892	1982	2071	2161	2250	2340	2429	2518	2608	2697	
56		2787	2876	2966	3055	3144	3234	3323	3413	3502	3592	
57		3681	3770	3860	3949	4039	4128	4217	4307	4396	4486	
58		4575	4664	4754	4843	4933	5022	5111	5201	5290	5380	
59		5469	5558	5648	5737	5826	5916	6005	6095	6184	6273	
4860		6363	6452	6541	6631	6720	6809	6899	6988	7077	7167	89
61		7256	7345	7435	7524	7614	7703	7792	7882	7971	8060	1-9
62		8150	8239	8328	8417	8507	8596	8685	8775	8864	8953	2-18
63		9043	9132	9221	9311	9400	9489	9578	9668	9757	9846	3-27
64		9936	0025	0114	0203	0293	0382	0471	0561	0650	0739	4-36
65	687	0828	0917	1007	1096	1185	1275	1364	1453	1542	1632	5-44
66		1721	1810	1899	1989	2078	2167	2256	2346	2435	2524	6-53
67		2613	2703	2792	2881	2970	3060	3149	3238	3327	3416	7-62
68		3506	3595	3684	3773	3862	3952	4041	4130	4219	4308	8-71
69		4398	4487	4576	4665	4754	4844	4933	5022	5111	5200	9-80
4870		5290	5379	5468	5557	5646	5735	5825	5914	6003	6092	
71		6181	6270	6360	6449	6538	6627	6716	6805	6894	6984	
72		7073	7162	7251	7340	7429	7518	7608	7697	7786	7875	
73		7964	8053	8142	8231	8321	8410	8499	8588	8677	8766	
74		8855	8944	9033	9123	9212	9301	9390	9479	9568	9657	
75		9746	9835	9924	0013	0102	0192	0281	0370	0459	0548	
76	688	0637	0726	0815	0904	0993	1082	1171	1260	1349	1438	
77		1528	1617	1706	1795	1884	1973	2062	2151	2240	2329	
78		2418	2507	2596	2685	2774	2863	2952	3041	3130	3219	
79		3308	3397	3486	3575	3664	3753	3842	3931	4020	4109	89
4880		4198	4287	4376	4465	4554	4643	4732	4821	4910	4999	88
81		5088	5177	5266	5355	5444	5533	5622	5711	5800	5889	1-9
82		5978	6067	6156	6245	6334	6422	6511	6600	6689	6778	2-18
83		6867	6956	7045	7134	7223	7312	7401	7490	7579	7668	3-26
84		7757	7845	7934	8023	8112	8201	8290	8379	8468	8557	4-35
85		8646	8735	8823	8912	9001	9090	9179	9268	9357	9446	5-44
86		9535	9623	9712	9801	9890	9979	0068	0157	0246	0334	6-53
87	689	0423	0512	0601	0690	0779	0868	0957	1045	1134	1223	7-62
88		1312	1401	1490	1578	1667	1756	1845	1934	2023	2111	8-70
89		2200	2289	2378	2467	2556	2644	2733	2822	2911	3000	9-79
4890		3089	3177	3266	3355	3444	3533	3621	3710	3799	3888	
91		3977	4065	4154	4243	4332	4421	4509	4598	4687	4776	
92		4864	4953	5042	5131	5220	5308	5397	5486	5575	5663	
93		5752	5841	5930	6018	6107	6196	6285	6373	6462	6551	
94		6640	6728	6817	6906	6995	7083	7172	7261	7349	7438	
95		7527	7616	7704	7793	7882	7970	8059	8148	8237	8325	
96		8414	8503	8591	8680	8769	8858	8946	9035	9124	9212	
97		9301	9390	9478	9567	9656	9744	9833	9922	0010	0099	
98	690	0188	0276	0365	0454	0542	0631	0720	0808	0897	0986	
99		1074	1163	1252	1340	1429	1518	1606	1695	1783	1872	
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4900	090	1961	2049	2138	2227	2315	2404	2492	2581	2670	2758	
01		2847	2936	3024	3113	3201	3290	3379	3467	3556	3644	
02		3733	3822	3910	3999	4087	4176	4265	4353	4442	4530	
03		4619	4707	4796	4885	4973	5062	5150	5239	5327	5416	
04		5505	5593	5682	5770	5859	5947	6036	6124	6213	6302	
05		6390	6479	6567	6656	6744	6833	6921	7010	7098	7187	
06		7275	7364	7452	7541	7629	7718	7806	7895	7984	8072	
07		8161	8249	8338	8426	8515	8603	8692	8780	8869	8957	
08		9046	9134	9222	9311	9399	9488	9576	9665	9753	9842	
09		9930	0019	0107	0196	0284	0373	0461	0550	0638	0726	
4910	691	0815	0903	0992	1080	1169	1257	1346	1434	1522	1611	89
11		1699	1788	1876	1965	2053	2141	2230	2318	2407	2495	1—9
12		2584	2672	2760	2849	2937	3026	3114	3202	3291	3379	2—18
13		3468	3556	3644	3733	3821	3910	3998	4086	4175	4263	3—27
14		4352	4440	4528	4617	4705	4793	4882	4970	5058	5147	4—36
15		5235	5324	5412	5500	5589	5677	5765	5854	5942	6030	5—44
16		6119	6207	6295	6384	6472	6560	6649	6737	6825	6914	6—53
17		7002	7090	7179	7267	7355	7444	7532	7620	7709	7797	7—62
18		7885	7973	8062	8150	8238	8327	8415	8503	8592	8680	8—71
19		8768	8856	8945	9033	9121	9210	9298	9386	9474	9563	9—80
4920		9651	9739	9828	9916	0004	0092	0181	0269	0357	0445	
21	692	0534	0622	0710	0798	0887	0975	1063	1151	1240	1328	
22		1416	1504	1593	1681	1769	1857	1945	2034	2122	2210	
23		2298	2387	2475	2563	2651	2739	2828	2916	3004	3092	
24		3180	3269	3357	3445	3533	3621	3710	3798	3886	3974	
25		4062	4150	4239	4327	4415	4503	4591	4680	4768	4856	
26		4944	5032	5120	5209	5297	5385	5473	5561	5649	5737	
27		5826	5914	6002	6090	6178	6266	6354	6443	6531	6619	
28		6707	6795	6883	6971	7059	7148	7236	7324	7412	7500	
29		7588	7676	7764	7852	7941	8029	8117	8205	8293	8381	
4930		8469	8557	8645	8733	8821	8910	8998	9086	9174	9262	88
31		9350	9438	9526	9614	9702	9790	9878	9966	0054	0143	1—9
32	693	0231	0319	0407	0495	0583	0671	0759	0847	0935	1023	2—18
33		1111	1199	1287	1375	1463	1551	1639	1727	1815	1903	3—26
34		1991	2079	2167	2255	2343	2431	2519	2607	2696	2784	4—35
35		2872	2960	3048	3136	3223	3312	3399	3487	3575	3663	5—44
36		3751	3839	3927	4015	4103	4191	4279	4367	4455	4543	6—53
37		4631	4719	4807	4895	4983	5071	5159	5247	5335	5423	7—62
38		5511	5599	5687	5775	5863	5951	6038	6126	6214	6302	8—70
39		6390	6478	6566	6654	6742	6830	6918	7006	7094	7182	9—79
4940		7269	7357	7445	7533	7621	7709	7797	7885	7973	8061	
41		8149	8236	8324	8412	8500	8588	8676	8764	8852	8939	
42		9027	9115	9203	9291	9379	9467	9555	9642	9730	9818	
43		9906	9994	0082	0170	0257	0345	0433	0521	0609	0697	
44	694	0785	0872	0960	1048	1136	1224	1312	1399	1487	1575	
45		1663	1751	1839	1926	2014	2102	2190	2278	2365	2453	
46		2541	2629	2717	2805	2892	2980	3068	3156	3243	3331	
47		3419	3507	3595	3682	3770	3858	3946	4034	4121	4209	
48		4297	4385	4472	4560	4648	4736	4824	4911	4999	5087	
49		5175	5262	5350	5438	5525	5613	5701	5789	5876	5964	
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4950	694	6052	6140	6227	6315	6403	6491	6578	6666	6754	6841	
51	6929	7017	7105	7192	7280	7368	7455	7543	7631	7719		
52	7806	7894	7982	8069	8157	8245	8332	8420	8508	8596		
53	8683	8771	8859	8946	9034	9122	9209	9297	9385	9472		
54	9560	9648	9735	9823	9911	9998	0086	0174	0261	0349		
55	095	0437	0524	0612	0699	0787	0875	0962	1050	1138	1225	
56	1313	1401	1488	1576	1663	1751	1839	1926	2014	2102		
57	2189	2277	2364	2452	2540	2627	2715	2802	2890	2978		
58	3065	3153	3240	3328	3416	3503	3591	3678	3766	3853		
59	3941	4029	4116	4204	4291	4379	4466	4554	4642	4729		
4960	4817	4904	4992	5079	5167	5254	5342	5430	5517	5605	87	
61	5692	5780	5867	5955	6042	6130	6217	6305	6392	6480	1—9	
62	6568	6655	6743	6830	6918	7005	7093	7180	7268	7355	2—17	
63	7443	7530	7618	7705	7793	7880	7968	8055	8143	8230	3—26	
64	8318	8405	8493	8580	8668	8755	8843	8930	9018	9105	4—35	
65	9193	9280	9367	9455	9542	9630	9717	9805	9892	9980	5—43	
66	696	0067	0155	0242	0329	0417	0504	0592	0679	0767	6—52	
67	0942	1029	1116	1204	1291	1379	1466	1554	1641	1728	7—61	
68	1816	1903	1991	2078	2165	2253	2340	2428	2515	2603	8—70	
69	2690	2777	2865	2952	3040	3127	3214	3302	3389	3476	9—78	
4970	3564	3651	3739	3826	3913	4001	4088	4175	4263	4350		
71	4438	4525	4612	4700	4787	4874	4962	5049	5136	5224		
72	5311	5398	5486	5573	5661	5748	5835	5923	6010	6097		
73	6185	6272	6359	6447	6534	6621	6708	6796	6883	6970		
74	7058	7145	7232	7320	7407	7494	7582	7669	7756	7844		
75	7931	8018	8105	8193	8280	8367	8455	8542	8629	8716		
76	8804	8891	8978	9065	9153	9240	9327	9415	9502	9589		
77	9676	9764	9851	9938	0025	0113	0200	0287	0374	0462		
78	697	0549	0636	0723	0811	0898	0985	1072	1160	1247	1334	
79	1421	1508	1596	1683	1770	1857	1945	2032	2119	2206		
4980	2293	2381	2468	2555	2642	2729	2817	2904	2991	3078	86	
81	3165	3253	3340	3427	3514	3601	3688	3776	3863	3950	1—9	
82	4037	4124	4212	4299	4386	4473	4560	4647	4734	4822	2—17	
83	4909	4996	5083	5170	5257	5345	5432	5519	5606	5693	3—26	
84	5780	5867	5955	6042	6129	6216	6303	6390	6477	6564	4—34	
85	6652	6739	6826	6913	7000	7087	7174	7261	7348	7436	5—43	
86	7523	7610	7697	7784	7871	7958	8045	8132	8219	8307	6—52	
87	8394	8481	8568	8655	8742	8829	8916	9003	9090	9177	7—60	
88	9264	9351	9439	9526	9613	9700	9787	9874	9961	0048	8—69	
89	698	0135	0222	0309	0396	0483	0570	0657	0744	0831	9—77	
4990	1005	1092	1179	1266	1354	1441	1528	1615	1702	1789	87	
91	1876	1963	2050	2137	2224	2311	2398	2485	2572	2659		
92	2746	2833	2920	3007	3094	3181	3268	3355	3442	3529		
93	3616	3703	3790	3877	3964	4050	4137	4224	4311	4398		
94	4485	4572	4659	4746	4833	4920	5007	5094	5181	5268		
95	5355	5442	5529	5616	5703	5790	5877	5963	6050	6137		
96	6224	6311	6398	6485	6572	6659	6746	6833	6920	7007		
97	7093	7180	7267	7354	7441	7528	7615	7702	7789	7876		
98	7963	8049	8136	8223	8310	8397	8484	8571	8658	8744		
99	8831	8918	9005	9092	9179	9266	9353	9439	9526	9613		
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01	6990569	0655	0742	0829	0916	1003	1090	1176	1263	1350		
02	1437	1524	1610	1697	1784	1871	1958	2045	2131	2218		
03	2305	2392	2479	2565	2652	2739	2826	2913	2999	3086		
04	3173	3260	3347	3433	3520	3607	3694	3780	3867	3954		
05	4041	4128	4214	4301	4388	4475	4561	4648	4735	4822		
06	4908	4995	5082	5169	5255	5342	5429	5516	5602	5689		
07	5776	5863	5949	6036	6123	6210	6296	6383	6470	6556		
08	6643	6730	6817	6903	6990	7077	7163	7250	7337	7424		
09	7510	7597	7684	7770	7857	7944	8030	8117	8204	8291		
5010	8377	8464	8551	8637	8724	8811	8897	8984	9071	9157		87
11	9244	9331	9417	9504	9591	9677	9764	9851	9937	0024		1-9
12	7000111	0197	0284	0371	0457	0544	0630	0717	0804	0890		2-17
13	0977	1064	1150	1237	1324	1410	1497	1583	1670	1757		3-26
14	1843	1930	2016	2103	2190	2276	2363	2450	2536	2623		4-35
15	2709	2796	2883	2969	3056	3142	3229	3315	3402	3489		5-43
16	3575	3662	3748	3835	3922	4008	4095	4181	4268	4354		6-52
17	4441	4528	4614	4701	4787	4874	4960	5047	5133	5220		7-61
18	5307	5393	5480	5566	5653	5739	5826	5912	5999	6085		8-70
19	6172	6258	6345	6431	6518	6605	6691	6778	6864	6951		9-78
5020	7037	7124	7210	7297	7383	7470	7556	7643	7729	7816		
21	7902	7989	8075	8162	8248	8335	8421	8508	8594	8681		
22	8767	8854	8940	9026	9113	9199	9286	9372	9459	9545		
23	9632	9718	9805	9891	9978	0064	0150	0237	0323	0410		
24	7010496	0583	0669	0756	0842	0928	1015	1101	1188	1274		
25	1361	1447	1533	1620	1706	1793	1879	1966	2052	2138		
26	2225	2311	2398	2484	2570	2657	2743	2830	2916	3002		
27	3089	3175	3262	3348	3434	3521	3607	3694	3780	3866		
28	3953	4039	4125	4212	4298	4384	4471	4557	4644	4730		
29	4816	4903	4989	5075	5162	5248	5334	5421	5507	5593		
5030	5680	5766	5852	5939	6025	6111	6198	6284	6370	6457		86
31	6543	6629	6716	6802	6888	6975	7061	7147	7234	7320		1-9
32	7406	7493	7579	7665	7751	7838	7924	8010	8097	8183		2-17
33	8269	8356	8442	8528	8614	8701	8787	8873	8960	9046		3-26
34	9132	9218	9305	9391	9477	9563	9650	9736	9822	9908		4-34
35	9995	0081	0167	0253	0340	0426	0512	0598	0685	0771		5-43
36	7020857	0943	1030	1116	1202	1288	1375	1461	1547	1633		6-52
37	1720	1806	1892	1978	2064	2151	2237	2323	2409	2495		7-60
38	2582	2668	2754	2840	2926	3013	3099	3185	3271	3357		8-69
39	3444	3530	3616	3702	3788	3874	3961	4047	4133	4219		9-77
5040	4305	4391	4478	4564	4650	4736	4822	4908	4995	5081		
41	5167	5253	5339	5425	5512	5598	5684	5770	5856	5942		
42	6028	6114	6201	6287	6373	6459	6545	6631	6717	6804		
43	6890	6976	7062	7148	7234	7320	7406	7492	7579	7665		
44	7751	7837	7923	8009	8095	8181	8267	8353	8439	8526		
45	8612	8698	8784	8870	8956	9042	9128	9214	9300	9386		
46	9472	9558	9645	9731	9817	9903	9989	0075	0161	0247		
47	7030333	0419	0505	0591	0677	0763	0849	0935	1021	1107		
48	1193	1279	1365	1452	1538	1624	1710	1796	1882	1968		
49	2054	2140	2226	2312	2398	2484	2570	2656	2742	2828	86	
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5050	703	2914	3000	3086	3172	3258	3344	3430	3516	3602	3688	
51		3774	3860	3946	4032	4118	4204	4289	4375	4461	4547	
52		4633	4719	4805	4891	4977	5063	5149	5235	5321	5407	
53		5493	5579	5665	5751	5837	5923	6009	6095	6180	6266	
54		6352	6438	6524	6610	6696	6782	6868	6954	7040	7126	
55		7212	7297	7383	7469	7555	7641	7727	7813	7899	7985	
56		8071	8156	8242	8328	8414	8500	8586	8672	8758	8844	
57		8930	9015	9101	9187	9273	9359	9445	9531	9616	9702	
58		9788	9874	9960	0046	0132	0217	0303	0389	0475	0561	
59	704	0647	0733	0818	0904	0990	1076	1162	1248	1333	1419	
5060		1505	1591	1677	1763	1848	1934	2020	2106	2192	2278	86
61		2363	2449	2535	2621	2707	2792	2878	2964	3050	3136	1—9
62		3221	3307	3393	3479	3565	3650	3736	3822	3908	3993	2—17
63		4079	4165	4251	4337	4422	4508	4594	4680	4765	4851	3—26
64		4937	5023	5108	5194	5280	5366	5451	5537	5623	5709	4—34
65		5794	5880	5966	6052	6137	6223	6309	6395	6480	6566	5—43
66		6652	6738	6823	6909	6995	7080	7166	7252	7338	7423	6—52
67		7509	7595	7680	7766	7852	7938	8023	8109	8195	8280	7—60
68		8366	8452	8537	8623	8709	8794	8880	8966	9052	9137	8—69
69		9223	9309	9394	9480	9566	9651	9737	9823	9908	9994	9—77
5070	705	0080	0165	0251	0337	0422	0508	0593	0679	0765	0850	
71		0936	1022	1107	1193	1279	1364	1450	1536	1621	1707	
72		1792	1878	1964	2049	2135	2221	2306	2392	2477	2563	
73		2649	2734	2820	2905	2991	3077	3162	3248	3333	3419	
74		3505	3590	3676	3761	3847	3933	4018	4104	4189	4275	
75		4360	4446	4532	4617	4703	4788	4874	4959	5045	5131	
76		5216	5302	5387	5473	5558	5644	5729	5815	5900	5986	
77		6072	6157	6243	6328	6414	6499	6585	6670	6756	6841	
78		6927	7012	7098	7183	7269	7355	7440	7526	7611	7697	
79		7782	7868	7953	8039	8124	8210	8295	8381	8466	8552	
5080		8637	8723	8808	8894	8979	9065	9150	9235	9321	9406	85
81		9492	9577	9663	9748	9834	9919	0005	0090	0176	0261	1—8
82	706	0347	0432	0517	0603	0688	0774	0859	0945	1030	1116	2—17
83		1201	1286	1372	1457	1543	1628	1714	1799	1885	1970	3—25
84		2055	2141	2226	2312	2397	2482	2568	2653	2739	2824	4—34
85		2910	2994	3080	3166	3251	3337	3422	3507	3593	3678	5—42
86		3764	3849	3934	4020	4105	4190	4276	4361	4447	4532	6—51
87		4617	4703	4788	4873	4959	5044	5130	5215	5300	5386	7—59
88		5471	5556	5642	5727	5812	5898	5983	6068	6154	6239	8—68
89		6325	6410	6495	6580	6666	6751	6836	6922	7007	7092	9—76
5090		7178	7263	7348	7434	7519	7604	7690	7775	7860	7946	
91		8031	8116	8202	8287	8372	8457	8543	8628	8713	8799	
92		8884	8969	9054	9140	9225	9310	9396	9481	9566	9651	
93		9737	9822	9907	9993	0078	0163	0248	0334	0419	0504	
94	707	0589	0675	0760	0845	0930	1016	1101	1186	1271	1357	
95		1442	1527	1612	1698	1783	1868	1953	2038	2124	2209	
96		2294	2379	2465	2550	2635	2720	2805	2891	2976	3061	
97		3146	3231	3317	3402	3487	3572	3657	3743	3828	3913	
98		3998	4083	4169	4254	4339	4424	4509	4595	4680	4765	
99		4850	4935	5020	5106	5191	5276	5361	5446	5531	5617	
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01	6553	6638	6723	6809	6894	6979	7064	7149	7234	7319		
02	7405	7490	7575	7660	7745	7830	7915	8000	8085	8171		
03	8256	8341	8426	8511	8596	8681	8766	8851	8936	9022		
04	9107	9192	9277	9362	9447	9532	9617	9702	9787	9872		
05	9957	0042	0128	0213	0298	0383	0468	0553	0638	0723		
06	708	0808	0893	0978	1063	1148	1233	1318	1403	1488	1573	
07	1659	1744	1829	1914	1999	2084	2169	2254	2339	2424		
08	2509	2594	2679	2764	2849	2934	3019	3104	3189	3274		
09	3359	3444	3529	3614	3699	3784	3869	3954	4039	4124	85	
5110	4209	4294	4379	4464	4549	4634	4719	4804	4889	4974		86
11	5059	5144	5229	5314	5399	5484	5569	5654	5738	5823		1-9
12	5908	5993	6078	6163	6248	6333	6418	6503	6588	6673		2-17
13	6758	6843	6928	7013	7098	7183	7267	7352	7437	7522		3-26
14	7607	7692	7777	7862	7947	8032	8117	8202	8287	8371		4-34
15	8456	8541	8626	8711	8796	8881	8966	9051	9136	9220		5-43
16	9305	9390	9475	9560	9645	9730	9815	9899	9984	0069		6-52
17	709	0154	0239	0324	0409	0494	0578	0663	0748	0833	0918	7-60
18	1003	1088	1172	1257	1342	1427	1512	1597	1682	1766		8-69
19	1851	1936	2021	2108	2191	2275	2360	2445	2530	2615		9-77
5120	2700	2784	2869	2954	3039	3124	3208	3293	3378	3463		
21	3548	3633	3717	3802	3887	3972	4057	4141	4226	4311		
22	4396	4480	4565	4650	4735	4820	4904	4989	5074	5159		
23	5244	5328	5413	5498	5583	5667	5752	5837	5922	6006		
24	6091	6176	6261	6345	6430	6515	6600	6684	6769	6854		
25	6939	7023	7108	7193	7278	7362	7447	7532	7617	7701		
26	7786	7871	7955	8040	8125	8210	8294	8379	8464	8548		
27	8633	8718	8803	8887	8972	9057	9141	9226	9311	9399		
28	9480	9565	9649	9734	9819	9904	9988	0073	0158	0242		
29	710	0327	0412	0496	0581	0666	0750	0835	0920	1004	1089	
5130	1174	1258	1343	1428	1512	1597	1682	1766	1851	1935		85
31	2020	2105	2189	2274	2359	2443	2528	2613	2697	2782		1-8
32	2866	2951	3036	3120	3205	3290	3374	3459	3543	3628		2-17
33	3713	3797	3882	3966	4051	4136	4220	4305	4389	4474		3-25
34	4559	4643	4728	4812	4897	4982	5066	5151	5235	5320		4-34
35	5404	5489	5574	5658	5743	5827	5912	5996	6081	6165		5-42
36	6250	6335	6419	6504	6588	6673	6757	6842	6927	7011		6-51
37	7096	7180	7265	7349	7434	7518	7603	7687	7772	7856		7-59
38	7941	8025	8110	8195	8279	8364	8448	8533	8617	8702		8-68
39	8786	8871	8955	9040	9124	9209	9293	9378	9462	9547		9-76
5140	9631	9716	9800	9885	9969	0054	0138	0223	0307	0392		
41	711	0476	0560	0645	0729	0814	0898	0983	1067	1152	1236	
42	1321	1405	1490	1574	1659	1743	1827	1912	1996	2081		
43	2165	2250	2334	2419	2503	2587	2672	2756	2841	2925		
44	3010	3094	3178	3263	3347	3432	3516	3601	3685	3769		
45	3854	3938	4023	4107	4191	4276	4360	4445	4529	4613		
46	4698	4782	4867	4951	5035	5120	5204	5288	5373	5457		
47	5542	5626	5710	5795	5879	5964	6048	6132	6217	6301		
48	6385	6470	6554	6638	6723	6807	6891	6976	7060	7145		
49	7225	7313	7398	7482	7566	7651	7735	7819	7904	7988		
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5150	711	8072	8157	8241	8325	8410	8494	8578	8663	8747	8831	
51		8915	9000	9084	9168	9253	9337	9421	9506	9590	9674	
52		9759	9843	9927	0011	0096	0180	0264	0347	0433	0517	
53	712	0601	0686	0770	0854	0938	1023	1107	1191	1276	1360	
54		1444	1528	1613	1697	1781	1865	1950	2034	2118	2202	
55		2287	2371	2455	2539	2624	2708	2792	2876	2961	3045	
56		3129	3213	3297	3382	3466	3550	3634	3719	3803	3887	
57		3971	4055	4140	4224	4308	4392	4477	4561	4645	4729	
58		4813	4898	4982	5066	5150	5234	5318	5403	5487	5571	
59		5655	5739	5824	5908	5992	6076	6160	6244	6329	6413	
5160		6497	6581	6665	6749	6834	6918	7002	7086	7170	7254	84
61		7339	7423	7507	7591	7675	7759	7843	7928	8012	8096	1—8
62		8180	8264	8348	8432	8516	8601	8685	8769	8853	8937	2—17
63		9021	9105	9189	9274	9358	9442	9526	9610	9694	9778	3—25
64		9862	9946	0030	0115	0199	0283	0367	0451	0535	0619	4—34
65	713	0703	0787	0871	0955	1040	1124	1208	1292	1376	1460	5—42
66		1544	1628	1712	1796	1880	1964	2048	2132	2216	2301	6—50
67		2385	2469	2553	2637	2721	2805	2889	2973	3057	3141	7—59
68		3225	3309	3393	3477	3561	3645	3729	3813	3897	3981	8—67
69		4065	4149	4233	4317	4401	4485	4569	4653	4737	4821	9—76
5170		4905	4989	5073	5157	5241	5325	5409	5493	5577	5661	
71		5745	5829	5913	5997	6081	6165	6249	6333	6417	6501	
72		6585	6669	6753	6837	6921	7005	7089	7173	7257	7341	
73		7425	7509	7593	7677	7761	7844	7928	8012	8096	8180	
74		8264	8348	8432	8516	8600	8684	8768	8852	8936	9020	
75		9104	9187	9271	9355	9439	9523	9607	9691	9775	9859	
76		9943	0027	0110	0194	0278	0362	0446	0530	0614	0698	
77	714	0782	0865	0949	1033	1117	1201	1285	1369	1453	1537	
78		1620	1704	1788	1872	1956	2040	2124	2207	2291	2375	
79		2459	2543	2627	2711	2794	2878	2962	3046	3130	3214	
5180		3298	3381	3465	3549	3633	3717	3801	3884	3968	4052	83
81		4136	4220	4304	4387	4471	4555	4639	4723	4806	4890	1—8
82		4974	5058	5142	5225	5309	5393	5477	5561	5644	5728	2—17
83		5812	5896	5980	6063	6147	6231	6315	6399	6482	6566	3—25
84		6650	6734	6817	6901	6985	7069	7153	7236	7320	7404	4—33
85		7488	7571	7655	7739	7823	7906	7990	8074	8158	8241	5—41
86		8325	8409	8493	8576	8660	8744	8827	8911	8995	9079	6—50
87		9162	9246	9330	9414	9497	9581	9665	9748	9832	9916	7—58
88	715	0000	0083	0167	0251	0334	0418	0502	0586	0669	0753	8—66
89		0837	0920	1004	1088	1171	1255	1339	1422	1506	1590	9—75
5190		1674	1757	1841	1925	2008	2092	2176	2259	2343	2427	
91		2510	2594	2678	2761	2845	2929	3012	3096	3179	3263	
92		3347	3430	3514	3598	3681	3765	3849	3932	4016	4100	
93		4183	4267	4350	4434	4518	4601	4685	4769	4852	4936	
94		5019	5103	5187	5270	5354	5437	5521	5605	5688	5772	
95		5856	5939	6023	6106	6190	6273	6357	6441	6524	6608	
96		6691	6775	6859	6942	7026	7109	7193	7276	7360	7444	
97		7527	7611	7694	7778	7861	7945	8028	8112	8196	8279	
98		8363	8446	8530	8613	8697	8780	8864	8948	9031	9115	
99		9198	9282	9365	9449	9532	9616	9699	9783	9866	9950	
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Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5200	7160033	0117	0200	0284	0367	0451	0534	0618	0701	0785		
01	0869	0952	1035	1119	1202	1286	1369	1453	1536	1620		
02	1703	1787	1870	1954	2037	2121	2204	2288	2371	2455		
03	2538	2622	2705	2789	2872	2956	3039	3122	3206	3289		
04	3373	3456	3540	3623	3707	3790	3874	3957	4040	4124		
05	4207	4291	4374	4458	4541	4624	4708	4791	4875	4958		
06	5042	5125	5208	5292	5375	5459	5542	5625	5709	5792		
07	5876	5959	6043	6126	6209	6293	6376	6460	6543	6626		
08	6710	6793	6876	6960	7043	7127	7210	7293	7377	7460		
09	7544	7627	7710	7794	7877	7960	8044	8127	8210	8294		
5210	8377	8461	8544	8627	8711	8794	8877	8961	9044	9127		84
11	9211	9294	9377	9461	9544	9627	9711	9794	9877	9961		1—8
12	7170044	0127	0211	0294	0377	0461	0544	0627	0711	0794		2—17
13	0877	0960	1044	1127	1210	1294	1377	1460	1544	1627		3—25
14	1710	1794	1877	1960	2043	2127	2210	2293	2377	2460		4—34
15	2543	2626	2710	2793	2876	2959	3043	3126	3209	3293		5—42
16	3376	3459	3542	3626	3709	3792	3875	3959	4042	4125		6—50
17	4208	4292	4375	4458	4541	4625	4708	4791	4874	4957		7—59
18	5041	5124	5207	5290	5374	5457	5540	5623	5706	5790		8—67
19	5873	5956	6039	6123	6206	6289	6372	6455	6539	6622		9—76
5220	6705	6788	6871	6955	7038	7121	7204	7287	7371	7454		
21	7537	7620	7703	7786	7870	7953	8036	8119	8202	8285		
22	8369	8452	8535	8618	8701	8784	8868	8951	9034	9117		
23	9200	9283	9366	9450	9533	9616	9699	9782	9865	9948		
24	7180032	0115	0198	0281	0364	0447	0530	0614	0697	0780		
25	0863	0946	1029	1112	1195	1278	1362	1445	1528	1611		
26	1694	1777	1860	1943	2026	2109	2193	2276	2359	2442		
27	2525	2608	2691	2774	2857	2940	3023	3107	3190	3273		
28	3356	3439	3522	3605	3688	3771	3854	3937	4020	4103		
29	4186	4269	4352	4436	4519	4602	4685	4768	4851	4934		
5230	5017	5100	5183	5266	5349	5432	5515	5598	5681	5764		83
31	5847	5930	6013	6096	6179	6262	6345	6428	6511	6594		1—8
32	6677	6760	6843	6926	7009	7092	7175	7258	7341	7424		2—17
33	7507	7590	7673	7756	7839	7922	8005	8088	8171	8254		3—25
34	8337	8420	8503	8586	8669	8752	8835	8918	9001	9084		4—33
35	9167	9250	9333	9416	9499	9582	9665	9747	9830	9913		5—41
36	9996	0079	0162	0245	0328	0411	0494	0577	0660	0743		6—50
37	7190826	0909	0992	1074	1157	1240	1323	1406	1489	1572		7—58
38	1655	1738	1821	1904	1987	2069	2152	2235	2318	2401		8—66
39	2484	2567	2650	2733	2816	2898	2981	3064	3147	3230		9—75
5240	3313	3396	3479	3561	3644	3727	3810	3893	3976	4059		
41	4142	4224	4307	4390	4473	4556	4639	4722	4804	4887		
42	4970	5053	5136	5219	5301	5384	5467	5550	5633	5716		
43	5799	5881	5964	6047	6130	6213	6295	6378	6461	6544		
44	6627	6710	6792	6875	6958	7041	7124	7206	7289	7372		
45	7455	7538	7620	7703	7786	7869	7952	8034	8117	8200		
46	8283	8366	8448	8531	8614	8697	8779	8862	8945	9028		
47	9111	9193	9276	9359	9442	9524	9607	9690	9773	9855		
48	9938	0021	0104	0186	0269	0352	0435	0517	0600	0683		
49	7200766	0848	0941	1014	1097	1179	1262	1345	1428	1510		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5250	720	1593	1676	1758	1841	1924	2007	2089	2172	2255	2337	
51		2420	2503	2586	2668	2751	2834	2916	2999	3082	3164	
52		3247	3330	3413	3495	3578	3661	3743	3826	3909	3991	
53		4074	4157	4239	4322	4405	4487	4570	4653	4735	4818	
54		4901	4983	5066	5149	5231	5314	5397	5479	5562	5645	
55		5727	5810	5892	5975	6058	6140	6223	6306	6388	6471	
56		6554	6636	6719	6801	6884	6967	7049	7132	7214	7297	
57		7380	7462	7545	7628	7710	7793	7875	7958	8041	8123	
58		8206	8288	8371	8454	8536	8619	8701	8784	8866	8949	
59		9032	9114	9197	9279	9362	9445	9527	9610	9692	9775	
5260		9857	9940	0023	0105	0188	0270	0353	0435	0518	0600	83
61	721	0683	0766	0848	0931	1013	1096	1178	1261	1343	1426	1-8
62		1508	1591	1673	1756	1839	1921	2004	2086	2169	2251	2-17
63		2334	2416	2499	2581	2664	2746	2829	2911	2994	3076	3-25
64		3159	3241	3324	3406	3489	3571	3654	3736	3819	3901	4-33
65		3984	4066	4149	4231	4314	4396	4479	4561	4644	4726	5-41
66		4809	4891	4973	5056	5138	5221	5303	5386	5468	5551	6-50
67		5633	5716	5798	5880	5963	6045	6128	6210	6293	6375	7-58
68		6458	6540	6622	6705	6787	6870	6952	7035	7117	7200	8-66
69		7282	7364	7447	7529	7612	7694	7776	7859	7941	8024	9-75
5270		8106	8189	8271	8353	8436	8518	8601	8683	8765	8848	
71		8930	9013	9095	9177	9260	9342	9424	9507	9589	9672	
72		9754	9836	9919	0001	0083	0166	0248	0331	0413	0495	
73	722	0578	0660	0742	0825	0907	0989	1072	1154	1237	1319	
74		1401	1484	1566	1648	1731	1813	1895	1978	2060	2142	
75		2225	2307	2389	2472	2554	2636	2719	2801	2883	2966	
76		3048	3130	3212	3295	3377	3459	3542	3624	3706	3789	
77		3871	3953	4035	4118	4200	4282	4365	4447	4529	4612	
78		4694	4776	4858	4941	5023	5105	5187	5270	5352	5434	
79		5517	5599	5681	5763	5846	5928	6010	6092	6175	6257	
5280		6339	6421	6504	6586	6668	6750	6833	6915	6997	7079	82
81		7162	7244	7326	7408	7491	7573	7655	7737	7819	7902	1-8
82		7984	8066	8148	8231	8313	8395	8477	8559	8642	8724	2-16
83		8806	8888	8970	9053	9135	9217	9299	9381	9464	9546	3-25
84		9628	9710	9792	9875	9957	0039	0121	0203	0286	0368	4-33
85	723	0450	0532	0614	0696	0779	0861	0943	1025	1107	1189	5-41
86		1272	1354	1436	1518	1600	1682	1764	1847	1929	2011	6-49
87		2093	2175	2257	2339	2422	2504	2586	2668	2750	2832	7-57
88		2914	2997	3079	3161	3243	3325	3407	3489	3571	3654	8-66
89		3736	3818	3900	3982	4064	4146	4228	4310	4392	4475	9-74
5290		4557	4639	4721	4803	4885	4967	5049	5131	5213	5295	
91		5378	5460	5542	5624	5706	5788	5870	5952	6034	6116	
92		6198	6280	6362	6444	6527	6609	6691	6773	6855	6937	
93		7019	7101	7183	7265	7347	7429	7511	7593	7675	7757	
94		7839	7921	8003	8086	8167	8249	8332	8414	8496	8578	
95		8660	8742	8824	8906	8988	9070	9152	9234	9316	9398	
96		9480	9562	9644	9726	9808	9890	9972	0054	0136	0218	82
97	724	0300	0382	0464	0546	0628	0710	0792	0874	0956	1038	
98		1120	1201	1283	1365	1447	1529	1611	1693	1775	1857	
99		1930	2021	2103	2185	2267	2349	2431	2513	2599	2677	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 33000 L. 724

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5300	724	2759	2841	2923	3005	3086	3168	3250	3332	3414	3496	
01		3578	3660	3742	3824	3906	3988	4070	4151	4233	4315	
02		4397	4479	4561	4643	4725	4807	4889	4971	5052	5134	
03		5216	5298	5380	5462	5544	5626	5708	5789	5871	5953	
04		6035	6117	6199	6281	6363	6444	6526	6608	6690	6772	
05		6854	6936	7018	7099	7181	7263	7345	7427	7509	7591	
06		7672	7754	7836	7918	8000	8082	8163	8245	8327	8409	
07		8491	8573	8654	8736	8818	8900	8982	9064	9145	9227	
08		9309	9391	9473	9555	9636	9718	9800	9882	9964	0045	
09	725	0127	0209	0291	0373	0454	0536	0618	0700	0782	0863	82
5310		0945	1027	1109	1191	1272	1354	1436	1518	1599	1681	1—8
11		1763	1845	1927	2008	2090	2172	2254	2335	2417	2499	2—16
12		2581	2662	2744	2826	2908	2989	3071	3153	3235	3316	3—25
13		3398	3480	3562	3643	3725	3807	3889	3970	4052	4134	4—33
14		4216	4297	4379	4461	4542	4624	4706	4787	4869	4951	5—41
15		5033	5114	5196	5278	5359	5441	5523	5605	5686	5768	6—49
16		5850	5931	6013	6095	6176	6258	6340	6422	6503	6585	7—57
17		6667	6748	6830	6912	6993	7075	7157	7238	7320	7402	8—66
18		7483	7565	7647	7728	7810	7892	7973	8055	8137	8218	9—74
19		8300	8382	8463	8545	8626	8708	8790	8871	8953	9035	
5320		9116	9198	9280	9361	9443	9524	9606	9688	9769	9851	
21		9933	0014	0096	0177	0259	0341	0422	0504	0585	0667	
22	726	0749	0830	0912	0993	1075	1157	1238	1320	1401	1483	
23		1565	1646	1728	1809	1891	1973	2054	2136	2217	2299	
24		2380	2462	2544	2625	2707	2788	2870	2951	3033	3115	
25		3196	3278	3359	3441	3522	3604	3685	3767	3848	3930	
26		4012	4093	4175	4256	4338	4419	4501	4582	4664	4745	
27		4827	4908	4990	5071	5153	5235	5316	5398	5479	5561	
28		5642	5724	5805	5887	5968	6050	6131	6213	6294	6376	
29		6457	6539	6620	6702	6783	6865	6946	7028	7109	7191	
5330		7272	7354	7435	7516	7598	7679	7761	7842	7924	8005	81
31		8087	8168	8250	8331	8413	8494	8576	8657	8738	8820	1—8
32		8901	8983	9064	9146	9227	9309	9390	9471	9553	9634	2—16
33		9716	9797	9879	9960	0042	0123	0204	0286	0367	0449	3—24
34	727	0530	0611	0693	0774	0856	0937	1019	1100	1181	1263	4—32
35		1344	1426	1507	1588	1670	1751	1833	1914	1995	2077	5—40
36		2158	2240	2321	2402	2484	2565	2646	2728	2809	2891	6—49
37		2972	3053	3135	3216	3297	3379	3460	3542	3623	3704	7—57
38		3786	3867	3948	4030	4111	4192	4274	4355	4436	4518	8—65
39		4599	4681	4762	4843	4925	5006	5087	5169	5250	5331	9—73
5340		5413	5494	5575	5656	5738	5819	5900	5982	6063	6144	
41		6226	6307	6388	6470	6551	6632	6714	6795	6876	6957	
42		7039	7120	7201	7283	7364	7445	7527	7608	7689	7770	
43		7852	7933	8014	8096	8177	8258	8339	8421	8502	8583	
44		8664	8746	8827	8908	8990	9071	9152	9233	9315	9396	
45		9477	9558	9640	9721	9802	9883	9965	0046	0127	0208	
46	728	0290	0371	0452	0533	0614	0696	0777	0858	0939	1021	
47		1102	1183	1264	1345	1427	1508	1589	1670	1752	1833	
48		1914	1995	2076	2158	2239	2320	2401	2482	2564	2645	
49		2726	2807	2888	2969	3051	3132	3213	3294	3375	3457	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5350	728	3538	3619	3700	3781	3862	3944	4025	4106	4187	4268	
51	4350	4431	4512	4593	4674	4755	4836	4918	4999	5080		
52	5161	5242	5323	5404	5486	5567	5648	5729	5810	5891		
53	5972	6054	6135	6216	6297	6378	6459	6540	6621	6703		
54	6784	6865	6946	7027	7108	7189	7270	7351	7432	7514		
55	7595	7676	7757	7838	7919	8000	8081	8162	8243	8325		
56	8406	8487	8568	8649	8730	8811	8892	8973	9054	9135		
57	9216	9297	9379	9460	9541	9622	9703	9784	9865	9946		
58	729	0027	0108	0189	0270	0351	0432	0513	0594	0675		
59	0838	0919	1000	1081	1162	1243	1324	1405	1486	1567		
5360	1648	1729	1810	1891	1972	2053	2134	2215	2296	2377		81
61	2458	2539	2620	2701	2782	2863	2944	3025	3106	3187		1—8
62	3268	3349	3430	3511	3592	3673	3754	3835	3916	3997		2—16
63	4078	4159	4240	4321	4402	4483	4564	4645	4726	4807		3—24
64	4888	4969	5050	5131	5211	5292	5373	5454	5535	5616		4—32
65	5697	5778	5859	5940	6021	6102	6183	6264	6345	6426		5—40
66	6507	6588	6668	6749	6830	6911	6992	7073	7154	7235		6—49
67	7316	7397	7478	7559	7640	7720	7801	7882	7963	8044		7—57
68	8125	8206	8287	8368	8449	8530	8610	8691	8772	8853		8—65
69	8934	9015	9096	9177	9258	9338	9419	9500	9581	9662		9—73
5370	9743	9824	9905	9985	0066	0147	0228	0309	0390	0471		
71	730	0552	0632	0713	0794	0875	0956	1037	1117	1198		
72	1360	1441	1522	1603	1683	1764	1845	1926	2007	2088		
73	2168	2249	2330	2411	2492	2572	2653	2734	2815	2896		
74	2977	3057	3138	3219	3300	3381	3461	3542	3623	3704		
75	3785	3865	3946	4027	4108	4189	4269	4350	4431	4512		
76	4593	4673	4754	4835	4916	4996	5077	5158	5239	5320		
77	5400	5481	5562	5643	5723	5804	5885	5966	6046	6127		
78	6208	6289	6369	6450	6531	6612	6692	6773	6854	6935		
79	7015	7096	7177	7258	7338	7419	7500	7581	7661	7742		
5380	7823	7903	7984	8065	8146	8226	8307	8388	8468	8549		80
81	8630	8711	8791	8872	8953	9033	9114	9195	9275	9356		1—8
82	9437	9518	9598	9679	9760	9840	9921	0002	0082	0163		2—16
83	731	0244	0324	0405	0486	0566	0647	0728	0808	0889		3—24
84	1051	1131	1212	1292	1373	1454	1534	1615	1696	1776		4—32
85	1857	1938	2018	2099	2180	2260	2341	2422	2502	2583		5—40
86	2663	2744	2825	2905	2986	3067	3147	3228	3308	3389		6—48
87	3470	3550	3631	3712	3792	3873	3953	4034	4115	4195		7—56
88	4276	4356	4437	4518	4598	4679	4759	4840	4921	5001		8—64
89	5082	5162	5243	5324	5404	5485	5565	5646	5726	5807		9—72
5390	5888	5968	6049	6129	6210	6290	6371	6452	6532	6613		
91	6693	6774	6854	6935	7015	7096	7177	7257	7338	7419		
92	7499	7579	7660	7740	7821	7901	7982	8063	8143	8224		
93	8304	8385	8465	8546	8626	8707	8787	8868	8948	9029		
94	9109	9190	9270	9351	9431	9512	9592	9673	9753	9834		
95	9914	9995	0075	0156	0236	0317	0397	0478	0558	0639		
96	732	0719	0800	0880	0961	1041	1122	1202	1283	1363		
97	1524	1605	1685	1766	1846	1926	2007	2087	2168	2248		
98	2329	2409	2490	2570	2651	2731	2811	2892	2972	3053		
99	3133	3214	3294	3375	3455	3535	3616	3696	3777	3857		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5400	732	3938	4018	4098	4179	4259	4340	4420	4500	4581	4661	
01		4742	4822	4903	4983	5063	5144	5224	5305	5385	5465	
02		5546	5626	5707	5787	5867	5948	6028	6108	6189	6269	
03		6350	6430	6510	6591	6671	6752	6832	6912	6993	7073	
04		7153	7234	7314	7394	7475	7555	7636	7716	7796	7877	
05		7957	8037	8118	8198	8278	8359	8439	8519	8600	8680	
06		8760	8841	8921	9001	9082	9162	9242	9323	9403	9483	
07		9564	9644	9724	9805	9885	9965	0046	0126	0206	0286	
08	733	0367	0447	0527	0608	0688	0768	0849	0929	1009	1089	
09		1170	1250	1330	1411	1491	1571	1651	1732	1812	1892	
5410		1973	2053	2133	2213	2294	2374	2454	2534	2615	2695	81
11		2775	2856	2936	3016	3096	3177	3257	3337	3417	3498	1—8
12		3578	3658	3738	3819	3899	3979	4059	4140	4220	4300	2—16
13		4380	4460	4541	4621	4701	4781	4862	4942	5022	5102	3—24
14		5183	5263	5343	5423	5503	5584	5664	5744	5824	5904	4—32
15		5985	6065	6145	6225	6305	6386	6466	6546	6626	6706	5—40
16		6787	6867	6947	7027	7107	7187	7268	7348	7428	7508	6—49
17		7588	7668	7749	7829	7909	7989	8069	8149	8230	8310	7—57
18		8390	8470	8550	8630	8711	8791	8871	8951	9031	9111	8—65
19		9192	9272	9352	9432	9512	9592	9672	9752	9833	9913	9—73
5420		9993	0073	0153	0233	0313	0393	0474	0554	0634	0714	
21	734	0794	0874	0954	1034	1114	1195	1275	1355	1435	1515	
22		1595	1675	1755	1835	1915	1996	2076	2156	2236	2316	
23		2396	2476	2556	2636	2716	2796	2876	2957	3037	3117	
24		3197	3277	3357	3437	3517	3597	3677	3757	3837	3917	
25		3997	4077	4157	4238	4318	4398	4478	4558	4638	4718	
26		4798	4878	4958	5038	5118	5198	5278	5358	5438	5518	
27		5598	5678	5758	5838	5918	5998	6078	6158	6238	6318	
28		6398	6478	6558	6638	6718	6798	6878	6958	7038	7118	80
29		7198	7278	7358	7438	7518	7598	7678	7758	7838	7918	
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31		8798	8878	8958	9038	9118	9198	9278	9358	9438	9518	1—8
32		9598	9678	9758	9837	9917	9997	0077	0157	0237	0317	2—16
33	735	0397	0477	0557	0637	0717	0797	0877	0957	1036	1116	3—24
34		1196	1276	1356	1436	1516	1596	1676	1756	1836	1916	4—32
35		1995	2075	2155	2235	2315	2395	2475	2555	2635	2715	5—40
36		2794	2874	2954	3034	3114	3194	3274	3354	3434	3513	6—48
37		3593	3673	3753	3833	3913	3993	4073	4152	4232	4312	7—56
38		4392	4472	4552	4632	4711	4791	4871	4951	5031	5111	8—64
39		5191	5270	5350	5430	5510	5590	5670	5749	5829	5909	9—72
5440		5989	6069	6149	6228	6308	6388	6468	6548	6628	6707	
41		6787	6867	6947	7027	7106	7186	7266	7346	7426	7506	
42		7585	7665	7745	7825	7905	7984	8064	8144	8224	8304	
43		8383	8463	8543	8623	8702	8782	8862	8942	9022	9101	
44		9181	9261	9341	9420	9500	9580	9660	9740	9819	9899	
45		9979	0059	0138	0218	0298	0378	0457	0537	0617	0697	
46	736	0776	0856	0936	1016	1095	1175	1255	1335	1414	1494	
47		1574	1653	1733	1813	1893	1972	2052	2132	2212	2291	
48		2371	2451	2530	2610	2690	2770	2849	2929	3009	3088	
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52		5558	5638	5718	5797	5877	5957	6036	6116	6196	6275	
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54		7151	7231	7311	7390	7470	7549	7629	7709	7788	7868	
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56		8744	8823	8903	8982	9062	9141	9221	9301	9380	9460	
57		9540	9619	9699	9778	9858	9937	0017	0097	0176	0256	
58	737	0335	0415	0494	0574	0654	0733	0813	0892	0972	1051	
59		1131	1210	1290	1370	1449	1529	1608	1688	1767	1847	
5460		1926	2006	2086	2165	2245	2324	2404	2483	2563	2642	80
61		2722	2801	2881	2960	3040	3119	3199	3278	3358	3437	1—8
62		3517	3596	3676	3755	3835	3914	3994	4073	4153	4232	2—16
63		4312	4391	4471	4550	4630	4709	4789	4868	4948	5027	3—24
64		5107	5186	5266	5345	5425	5504	5584	5663	5743	5822	4—32
65		5902	5981	6061	6140	6219	6299	6378	6458	6537	6617	5—40
66		6696	6776	6855	6935	7014	7093	7173	7252	7332	7411	6—48
67		7491	7570	7650	7729	7808	7888	7967	8047	8126	8206	7—56
68		8285	8364	8444	8523	8603	8682	8762	8841	8920	9000	8—64
69		9079	9159	9238	9317	9397	9476	9556	9635	9714	9794	9—72
5470		9873	9953	0032	0111	0191	0270	0350	0429	0508	0588	
71	738	0607	0746	0826	0905	0985	1064	1143	1223	1302	1381	
72		1461	1540	1620	1699	1778	1858	1937	2016	2096	2175	
73		2254	2334	2413	2492	2572	2651	2731	2810	2889	2969	
74		3048	3127	3207	3286	3365	3445	3524	3603	3683	3762	
75		3841	3921	4000	4079	4158	4238	4317	4396	4476	4555	
76		4634	4714	4793	4872	4952	5031	5110	5189	5269	5348	
77		5427	5507	5586	5665	5745	5824	5903	5982	6062	6141	
78		6220	6300	6379	6458	6537	6617	6696	6775	6854	6934	
79		7013	7092	7171	7251	7330	7409	7489	7568	7647	7726	
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81		8598	8677	8756	8836	8915	8994	9073	9153	9232	9311	1—8
82		9390	9469	9549	9628	9707	9786	9866	9945	0024	0103	2—16
83	739	0182	0262	0341	0420	0499	0578	0658	0737	0816	0895	3—24
84		0974	1054	1133	1212	1291	1370	1450	1529	1608	1687	4—32
85		1766	1845	1925	2004	2083	2162	2241	2320	2400	2479	5—39
86		2558	2637	2716	2795	2875	2954	3033	3112	3191	3270	6—47
87		3350	3429	3508	3587	3666	3745	3824	3904	3983	4062	7—55
88		4141	4220	4299	4378	4457	4537	4616	4695	4774	4853	8—63
89		4932	5011	5090	5170	5249	5328	5407	5486	5565	5644	9—71
5490		5723	5803	5882	5961	6040	6119	6198	6277	6356	6435	
91		6514	6593	6673	6752	6831	6910	6989	7068	7147	7226	
92		7305	7384	7463	7542	7622	7701	7780	7859	7938	8017	
93		8096	8175	8254	8333	8412	8491	8570	8649	8728	8807	
94		8887	8966	9045	9124	9203	9282	9361	9440	9519	9598	
95		9677	9756	9835	9914	9993	0072	0151	0230	0309	0388	
96	740	0467	0546	0625	0704	0783	0862	0941	1020	1099	1178	
97		1257	1336	1415	1494	1573	1652	1731	1810	1889	1968	79
98		2047	2126	2205	2284	2363	2442	2521	2600	2679	2758	
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02		5206	5285	5364	5443	5522	5600	5679	5758	5837	5916	
03		5995	6074	6153	6232	6311	6390	6469	6547	6626	6705	
04		6784	6863	6942	7021	7100	7179	7258	7337	7415	7494	
05		7573	7652	7731	7810	7889	7968	8047	8125	8204	8283	
06		8362	8441	8520	8599	8678	8756	8835	8914	8993	9072	
07		9151	9230	9308	9387	9466	9545	9624	9703	9782	9860	
08		9939	0018	0097	0176	0255	0333	0412	0491	0570	0649	
09	741	0728	0807	0885	0964	1043	1122	1201	1279	1358	1437	
5510		1516	1595	1674	1752	1831	1910	1989	2068	2146	2225	79
11		2304	2383	2462	2540	2619	2698	2777	2856	2934	3013	1—8
12		3092	3171	3250	3328	3407	3486	3565	3644	3722	3801	2—16
13		3880	3959	4037	4116	4195	4274	4353	4431	4510	4589	3—23
14		4668	4746	4825	4904	4983	5061	5140	5219	5298	5376	4—31
15		5455	5534	5613	5691	5770	5849	5928	6006	6085	6164	5—39
16		6243	6321	6400	6479	6557	6636	6715	6794	6872	6951	6—47
17		7030	7109	7187	7266	7345	7423	7502	7581	7659	7738	7—55
18		7817	7896	7974	8053	8132	8210	8289	8368	8447	8525	8—62
19		8604	8683	8761	8840	8919	8997	9076	9155	9233	9312	9—70
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22		0964	1043	1121	1200	1279	1357	1436	1514	1593	1672	
23		1750	1829	1908	1986	2065	2144	2222	2301	2379	2458	
24		2537	2615	2694	2773	2851	2930	3008	3087	3166	3244	
25		3323	3401	3480	3559	3637	3716	3794	3873	3952	4030	
26		4109	4187	4266	4345	4423	4502	4580	4659	4737	4816	
27		4895	4973	5052	5130	5209	5287	5366	5445	5523	5602	
28		5680	5759	5837	5916	5995	6073	6152	6230	6309	6387	
29		6466	6544	6623	6701	6780	6859	6937	7016	7094	7173	
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31		8037	8115	8194	8272	8351	8429	8508	8586	8665	8743	1—8
32		8822	8900	8979	9057	9136	9214	9293	9371	9450	9528	2—16
33		9607	9685	9764	9842	9921	9999	0078	0156	0235	0313	3—23
34	743	0392	0470	0548	0627	0705	0784	0862	0941	1019	1098	4—31
35		1176	1255	1333	1412	1490	1569	1647	1725	1804	1882	5—39
36		1961	2039	2118	2196	2275	2353	2431	2510	2588	2667	6—47
37		2745	2824	2902	2980	3059	3137	3216	3294	3373	3451	7—55
38		3530	3608	3686	3765	3843	3922	4000	4078	4157	4235	8—62
39		4314	4392	4470	4549	4627	4706	4784	4862	4941	5019	9—70
5540		5098	5176	5254	5333	5411	5490	5568	5646	5725	5803	
41		5882	5960	6038	6117	6195	6273	6352	6430	6508	6587	
42		6665	6744	6822	6900	6979	7057	7135	7214	7292	7370	
43		7449	7527	7605	7684	7762	7840	7919	7997	8075	8154	
44		8232	8311	8389	8467	8545	8624	8702	8780	8859	8937	
45		9016	9094	9172	9250	9329	9407	9485	9564	9642	9720	
46		9799	9877	9955	0034	0112	0190	0268	0347	0425	0503	
47	744	0582	0660	0738	0816	0895	0973	1051	1130	1208	1286	
48		1365	1443	1521	1599	1678	1756	1834	1912	1991	2069	
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52		4495	4573	4651	4729	4807	4886	4964	5042	5120	5198	
53		5277	5355	5433	5511	5590	5668	5746	5824	5902	5981	
54		6059	6137	6215	6293	6371	6450	6528	6606	6684	6762	
55		6841	6919	6997	7075	7153	7231	7310	7388	7466	7544	
56		7622	7700	7779	7857	7935	8013	8091	8169	8248	8326	
57		8404	8482	8560	8638	8717	8795	8873	8951	9029	9107	
58		9185	9264	9342	9420	9498	9576	9654	9732	9810	9889	
59		9967	0045	0123	0201	0279	0357	0435	0514	0592	0670	
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61		1529	1607	1685	1763	1841	1919	1997	2076	2154	2232	1—8
62		2310	2388	2466	2544	2622	2700	2778	2856	2934	3012	2—16
63		3091	3169	3247	3325	3403	3481	3559	3637	3715	3793	3—23
64		3871	3949	4027	4105	4183	4261	4339	4418	4496	4574	4—31
65		4652	4730	4808	4886	4964	5042	5120	5198	5276	5354	5—39
66		5432	5510	5588	5666	5744	5822	5900	5978	6056	6134	6—47
67		6212	6290	6368	6446	6524	6602	6680	6758	6836	6914	78
68		6992	7070	7148	7226	7304	7382	7460	7538	7616	7694	7—55
69		7772	7850	7928	8006	8084	8162	8240	8318	8396	8474	8—62
5570		8552	8630	8708	8786	8864	8942	9020	9098	9176	9254	9—70
71		9332	9409	9487	9565	9643	9721	9799	9877	9955	0033	
72	746	0111	0189	0267	0345	0423	0501	0579	0657	0735	0813	
73		0890	0968	1046	1124	1202	1280	1358	1436	1514	1592	
74		1670	1748	1825	1903	1981	2059	2137	2215	2293	2371	
75		2449	2527	2604	2682	2760	2838	2916	2994	3072	3150	
76		3228	3305	3383	3461	3539	3617	3695	3773	3851	3929	
77		4006	4084	4162	4240	4318	4396	4474	4551	4629	4707	
78		4785	4863	4941	5019	5096	5174	5252	5330	5408	5486	
79		5564	5641	5719	5797	5875	5953	6031	6108	6186	6264	
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81		7120	7198	7276	7354	7431	7509	7587	7665	7743	7820	1—8
82		7898	7976	8054	8132	8209	8287	8365	8443	8521	8598	2—15
83		8676	8754	8832	8910	8987	9065	9143	9221	9298	9376	3—23
84		9454	9532	9610	9687	9765	9843	9921	9998	0076	0154	4—31
85	747	0232	0309	0387	0465	0543	0621	0698	0776	0854	0932	5—38
86		1009	1087	1165	1242	1320	1398	1476	1553	1631	1709	6—46
87		1787	1864	1942	2020	2098	2175	2253	2331	2408	2486	7—54
88		2564	2642	2719	2797	2875	2953	3030	3108	3186	3263	8—62
89		3341	3419	3496	3574	3652	3730	3807	3885	3963	4040	9—69
5590		4118	4196	4273	4351	4429	4506	4584	4662	4740	4817	
91		4895	4973	5050	5128	5206	5283	5361	5439	5516	5594	
92		5672	5749	5827	5905	5982	6060	6138	6215	6293	6370	
93		6448	6526	6603	6681	6759	6836	6914	6992	7069	7147	
94		7225	7302	7380	7457	7535	7613	7690	7768	7846	7923	
95		8001	8078	8156	8234	8311	8389	8467	8544	8622	8699	
96		8777	8855	8932	9010	9087	9165	9243	9320	9398	9475	
97		9553	9631	9708	9786	9863	9941	0019	0096	0174	0251	
98	748	0329	0406	0484	0562	0639	0717	0794	0872	0949	1027	
99		1105	1182	1260	1337	1415	1492	1570	1648	1725	1803	
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02	3431	3509	3586	3664	3741	3819	3896	3974	4051	4129		
03	4206	4284	4361	4439	4516	4594	4671	4749	4826	4904		
04	4981	5059	5136	5214	5291	5369	5446	5524	5601	5679		
05	5756	5834	5911	5989	6066	6144	6221	6298	6376	6453		
06	6531	6608	6686	6763	6841	6918	6996	7073	7151	7228		
07	7306	7383	7460	7538	7615	7693	7770	7848	7925	8003		
08	8080	8157	8235	8312	8390	8467	8545	8622	8699	8777		
09	8854	8932	9009	9087	9164	9241	9319	9396	9474	9551		
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11	7490403	0480	0557	0635	0712	0790	0867	0944	1022	1099		1—8
12	1177	1254	1331	1409	1486	1563	1641	1718	1796	1873		2—16
13	1950	2028	2105	2182	2260	2337	2415	2492	2569	2647		3—23
14	2724	2801	2879	2956	3033	3111	3188	3266	3343	3420		4—31
15	3498	3575	3652	3730	3807	3884	3962	4039	4116	4194		5—39
16	4271	4348	4426	4503	4580	4658	4735	4812	4890	4967		6—47
17	5044	5122	5199	5276	5353	5431	5508	5585	5663	5740		7—55
18	5817	5895	5972	6049	6127	6204	6281	6358	6436	6513		8—62
19	6590	6668	6745	6822	6899	6977	7054	7131	7209	7286		9—70
5620	7363	7440	7518	7595	7672	7749	7827	7904	7981	8059		
21	8136	8213	8290	8368	8445	8522	8599	8677	8754	8831		
22	8908	8986	9063	9140	9217	9295	9372	9449	9526	9604		
23	9681	9758	9835	9912	9990	0067	0144	0221	0299	0376		
24	7500453	0530	0608	0685	0762	0839	0916	0994	1071	1148		
25	1225	1302	1380	1457	1534	1611	1688	1766	1843	1920		
26	1997	2074	2152	2229	2306	2383	2460	2538	2615	2692		
27	2769	2846	2923	3001	3078	3155	3232	3309	3387	3464		
28	3541	3618	3695	3772	3849	3927	4004	4081	4158	4235		
29	4312	4390	4467	4544	4621	4698	4775	4852	4930	5007		
5630	5084	5161	5238	5315	5392	5470	5547	5624	5701	5778		77
31	5855	5932	6009	6087	6164	6241	6318	6395	6472	6549		1—8
32	6626	6704	6781	6858	6935	7012	7089	7166	7243	7320		2—15
33	7398	7475	7552	7629	7706	7783	7860	7937	8014	8091		3—23
34	8168	8245	8323	8400	8477	8554	8631	8708	8785	8862		4—31
35	8939	9016	9093	9170	9247	9324	9402	9479	9556	9633		5—38
36	9710	9787	9864	9941	0018	0095	0172	0249	0326	0403		6—46
37	7510480	0557	0634	0711	0788	0865	0943	1020	1097	1174		7—54
38	1251	1328	1405	1482	1559	1636	1713	1790	1867	1944		8—62
39	2021	2098	2175	2252	2329	2406	2483	2560	2637	2714	77	9—69
5640	2791	2868	2945	3022	3099	3176	3253	3330	3407	3484		
41	3561	3638	3715	3792	3869	3946	4023	4100	4177	4254		
42	4331	4408	4485	4562	4639	4716	4793	4870	4947	5023		
43	5101	5177	5254	5331	5408	5485	5562	5639	5716	5793		
44	5870	5947	6024	6101	6178	6255	6332	6409	6486	6562		
45	6639	6716	6793	6870	6947	7024	7101	7178	7255	7332		
46	7409	7486	7563	7639	7716	7793	7870	7947	8024	8101		
47	8178	8255	8332	8409	8485	8562	8639	8716	8793	8870		
48	8947	9024	9101	9178	9254	9331	9408	9485	9562	9639		
49	9716	9793	9869	9946	0023	0100	0177	0254	0331	0408		
Numl	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts
5650	7520484	0561	0638	0715	0792	0869	0946	1022	1099	1176		
51	1253	1330	1407	1484	1560	1637	1714	1791	1868	1945		
52	2022	2098	2175	2252	2329	2406	2482	2559	2636	2713		
53	2790	2867	2943	3020	3097	3174	3251	3328	3404	3481		
54	3558	3635	3712	3788	3865	3942	4019	4096	4172	4249		
55	4326	4403	4480	4556	4633	4710	4787	4864	4940	5017		
56	5094	5171	5248	5324	5401	5478	5555	5631	5708	5785		
57	5862	5939	6015	6092	6169	6246	6322	6399	6476	6553		
58	6629	6706	6783	6860	6936	7013	7090	7167	7243	7320		
59	7397	7474	7550	7627	7704	7781	7857	7934	8011	8088		
5660	8164	8241	8318	8394	8471	8548	8625	8701	8778	8855		77
61	8932	9008	9085	9162	9238	9315	9392	9468	9545	9622		1—8
62	9699	9775	9852	9929	0005	0082	0159	0235	0312	0389		2—15
63	7530466	0542	0619	0696	0772	0849	0926	1002	1079	1156		3—23
64	1232	1309	1386	1462	1539	1616	1692	1769	1846	1922		4—31
65	1999	2076	2152	2229	2306	2382	2459	2536	2612	2689		5—38
66	2766	2842	2919	2996	3072	3149	3226	3302	3379	3455		6—46
67	3532	3609	3685	3762	3839	3915	3992	4068	4145	4222		7—53
68	4298	4375	4452	4528	4605	4681	4758	4835	4911	4988		8—62
69	5065	5141	5218	5294	5371	5448	5524	5601	5677	5754		9—69
5670	5831	5907	5984	6060	6137	6213	6290	6367	6443	6520		
71	6596	6673	6750	6826	6903	6979	7056	7132	7209	7286		
72	7362	7439	7515	7592	7668	7745	7822	7898	7975	8051		
73	8128	8204	8281	8357	8434	8511	8587	8664	8740	8817		
74	8893	8970	9046	9123	9199	9276	9352	9429	9506	9582		
75	9659	9735	9812	9888	9965	0041	0118	0194	0271	0347		
76	7540424	0500	0577	0653	0730	0806	0883	0959	1036	1112		
77	1189	1265	1342	1418	1495	1571	1648	1724	1801	1877		
78	1954	2030	2107	2183	2260	2336	2413	2489	2566	2642		
79	2719	2795	2872	2948	3025	3101	3177	3254	3330	3407		
5680	3483	3560	3636	3713	3789	3866	3942	4018	4095	4171		76
81	4248	4324	4401	4477	4554	4630	4707	4783	4859	4936		1—8
82	5012	5089	5165	5242	5318	5394	5471	5547	5624	5700		2—15
83	5777	5853	5929	6006	6082	6159	6235	6311	6388	6464		3—23
84	6541	6617	6693	6770	6846	6923	6999	7075	7152	7228		4—30
85	7305	7381	7457	7534	7610	7687	7763	7839	7916	7992		5—38
86	8069	8145	8221	8298	8374	8450	8527	8603	8679	8756		6—46
87	8832	8909	8985	9061	9138	9214	9290	9367	9443	9519		7—53
88	9596	9672	9749	9825	9901	9978	0054	0130	0207	0283		8—61
89	7550359	0436	0512	0588	0665	0741	0817	0894	0970	1046		9—68
5690	1123	1199	1275	1352	1428	1504	1581	1657	1733	1809		
91	1886	1962	2038	2115	2191	2267	2344	2420	2496	2573		
92	2649	2725	2801	2878	2954	3030	3107	3183	3259	3336		
93	3412	3488	3564	3641	3717	3793	3869	3946	4022	4098		
94	4175	4251	4327	4403	4480	4556	4632	4708	4785	4861		
95	4937	5013	5090	5166	5242	5319	5395	5471	5547	5624		
96	5700	5776	5852	5928	6005	6081	6157	6233	6310	6386		
97	6462	6538	6615	6691	6767	6843	6920	6996	7072	7148		
98	7224	7301	7377	7453	7529	7605	7682	7758	7834	7910		
99	7987	8063	8139	8215	8291	8368	8444	8520	8596	8672		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

N. 57000 L. 755

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
5700	755	8749	8825	8901	8977	9053	9129	9206	9282	9358	9434	
01		9510	9587	9663	9739	9815	9891	9967	0044	0120	0196	
02	756	0272	0348	0424	0501	0577	0653	0729	0805	0881	0958	
03		1034	1110	1186	1262	1338	1414	1491	1567	1643	1719	
04		1795	1871	1947	2024	2100	2176	2252	2328	2404	2480	
05		2556	2633	2709	2785	2861	2937	3013	3089	3165	3242	
06		3318	3394	3470	3546	3622	3698	3774	3850	3926	4003	
07		4079	4155	4231	4307	4383	4459	4535	4611	4687	4764	
08		4840	4916	4992	5068	5144	5220	5296	5372	5448	5524	
09		5600	5676	5753	5829	5905	5981	6057	6133	6209	6285	
5710		6361	6437	6513	6589	6665	6741	6817	6893	6969	7046	77
11		7122	7198	7274	7350	7426	7502	7578	7654	7730	7806	1—8
12		7882	7958	8034	8110	8186	8262	8338	8414	8490	8566	2—15
13		8642	8718	8794	8870	8946	9022	9098	9174	9250	9326	3—23
14		9402	9478	9554	9630	9706	9782	9858	9934	0010	0086	4—31
15	757	0162	0238	0314	0390	0466	0542	0618	0694	0770	0846	5—38
16		0922	0998	1074	1150	1226	1302	1378	1454	1530	1606	6—46
17		1682	1758	1834	1910	1986	2062	2138	2214	2290	2366	7—54
18		2442	2517	2593	2669	2745	2821	2897	2973	3049	3125	8—62
19		3201	3277	3353	3429	3505	3581	3657	3732	3808	3884	9—69
5720		3960	4036	4112	4188	4264	4340	4416	4492	4568	4644	
21		4719	4795	4871	4947	5023	5099	5175	5251	5327	5403	
22		5479	5554	5630	5706	5782	5858	5934	6010	6086	6162	
23		6237	6313	6389	6465	6541	6617	6693	6769	6844	6920	
24		6996	7072	7148	7224	7300	7376	7451	7527	7603	7679	
25		7755	7831	7907	7982	8058	8134	8210	8286	8362	8438	
26		8513	8589	8665	8741	8817	8893	8968	9044	9120	9196	
27		9272	9348	9423	9499	9575	9651	9727	9803	9878	9954	
28	758	0030	0106	0182	0257	0333	0409	0485	0561	0637	0712	
29		0788	0864	0940	1016	1091	1167	1243	1319	1395	1470	
5730		1546	1622	1698	1774	1849	1925	2001	2077	2152	2228	76
31		2304	2380	2456	2531	2607	2683	2759	2834	2910	2986	1—8
32		3062	3138	3213	3289	3365	3441	3516	3592	3668	3744	2—15
33		3819	3895	3971	4047	4122	4198	4274	4350	4425	4501	3—23
34		4577	4653	4728	4804	4880	4956	5031	5107	5183	5258	4—30
35		5334	5410	5486	5561	5637	5713	5789	5864	5940	6016	5—38
36		6091	6167	6243	6319	6394	6470	6546	6621	6697	6773	6—46
37		6848	6924	7000	7076	7152	7227	7303	7378	7454	7530	7—53
38		7605	7681	7757	7832	7908	7984	8059	8135	8211	8287	8—61
39		8362	8438	8514	8589	8665	8741	8816	8892	8968	9043	9—68
5740		9119	9195	9270	9346	9422	9497	9573	9648	9724	9800	
41		9875	9951	0027	0102	0178	0254	0329	0405	0481	0556	
42	759	0632	0707	0783	0859	0934	1010	1086	1161	1237	1312	
43		1388	1464	1539	1615	1691	1766	1842	1917	1993	2069	
44		2144	2220	2295	2371	2447	2522	2598	2673	2749	2825	
45		2900	2976	3051	3127	3203	3278	3354	3429	3505	3581	
46		3656	3732	3807	3883	3958	4034	4110	4185	4261	4336	
47		4412	4487	4563	4639	4714	4790	4865	4941	5016	5092	
48		5168	5243	5319	5394	5470	5545	5621	5696	5772	5847	
49		5923	5999	6074	6150	6225	6301	6376	6452	6527	6603	
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5750	7596678	6754	6829	6905	6981	7056	7132	7207	7283	7358		
51	7434	7509	7585	7660	7736	7811	7887	7962	8038	8113		
52	8189	8264	8340	8415	8491	8566	8642	8717	8793	8868		
53	8944	9019	9095	9170	9246	9321	9397	9472	9548	9623		
54	9699	9774	9849	9925	0000	0076	0151	0227	0302	0378		
55	7600453	0529	0604	0680	0755	0831	0906	0981	1057	1132		
56	1208	1283	1359	1434	1510	1585	1660	1736	1811	1887		
57	1962	2038	2113	2189	2264	2339	2415	2490	2566	2641		
58	2717	2792	2867	2943	3018	3094	3169	3244	3320	3395		
59	3471	3546	3622	3697	3772	3848	3923	3999	4074	4149		
5760	4225	4300	4376	4451	4526	4602	4677	4753	4828	4903		75
61	4979	5054	5129	5205	5280	5356	5431	5506	5582	5657		1-7
62	5733	5808	5883	5959	6034	6109	6185	6260	6336	6410		2-15
63	6486	6562	6637	6712	6788	6863	6938	7014	7089	7164		3-22
64	7240	7315	7390	7466	7541	7616	7692	7767	7842	7918		4-30
65	7993	8068	8144	8219	8294	8370	8445	8520	8596	8671		5-37
66	8746	8822	8897	8972	9048	9123	9198	9274	9349	9424		6-45
67	9500	9575	9650	9725	9801	9876	9951	0027	0102	0177		7-52
68	7610253	0328	0403	0478	0554	0629	0704	0779	0855	0930		8-60
69	1005	1081	1156	1231	1306	1382	1457	1532	1608	1683		9-67
5770	1758	1833	1909	1984	2059	2134	2210	2285	2360	2435		
71	2511	2586	2661	2736	2812	2887	2962	3037	3112	3188		
72	3263	3338	3414	3489	3564	3639	3715	3790	3865	3940		
73	4016	4091	4166	4241	4316	4392	4467	4542	4617	4693		
74	4768	4843	4918	4993	5069	5144	5219	5294	5369	5445		
75	5520	5595	5670	5745	5821	5896	5971	6046	6121	6197		
76	6272	6347	6422	6497	6573	6648	6723	6798	6873	6948		
77	7024	7099	7174	7249	7324	7399	7475	7550	7625	7700		
78	7775	7850	7926	8001	8076	8151	8226	8301	8377	8452		
79	8527	8602	8677	8752	8827	8903	8978	9053	9128	9203		
5780	9278	9353	9429	9504	9579	9654	9729	9804	9879	9955		74
81	7620030	0105	0180	0255	0330	0405	0480	0555	0631	0706		1-7
82	0781	0856	0931	1006	1081	1156	1231	1307	1382	1457		2-15
83	1532	1607	1682	1757	1832	1907	1982	2058	2133	2208		3-22
84	2283	2358	2433	2508	2583	2658	2733	2808	2883	2959		4-30
85	3034	3109	3184	3259	3334	3409	3484	3559	3634	3709		5-37
86	3784	3859	3934	4009	4084	4160	4235	4310	4385	4460		6-44
87	4535	4610	4685	4760	4835	4910	4985	5060	5135	5210		7-52
88	5285	5360	5435	5510	5585	5660	5735	5810	5885	5960		8-59
89	6035	6110	6185	6261	6336	6411	6486	6561	6636	6711		9-67
5790	6786	6861	6936	7011	7086	7161	7236	7311	7386	7461	75	
91	7536	7611	7686	7761	7836	7911	7986	8061	8136	8210		
92	8286	8360	8435	8510	8585	8660	8735	8810	8885	8960		
93	9035	9110	9185	9260	9335	9410	9485	9560	9635	9710		
94	9785	9860	9935	0010	0085	0160	0235	0310	0385	0459		
95	7630534	0609	0684	0759	0834	0909	0984	1059	1134	1209		
96	1284	1359	1434	1509	1583	1658	1733	1808	1883	1958		
97	2033	2108	2183	2258	2333	2408	2482	2557	2632	2707		
98	2782	2857	2932	3007	3082	3157	3231	3306	3381	3456		
99	3531	3606	3681	3756	3831	3905	3980	4055	4130	4205		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 58000 L.763

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5800	763	4280	4355	4430	4505	4579	4654	4729	4804	4879	4954	
01		5029	5103	5178	5253	5328	5403	5478	5553	5627	5702	
02		5777	5852	5927	6002	6077	6151	6226	6301	6376	6451	
03		6526	6600	6675	6750	6825	6900	6975	7050	7124	7199	
04		7274	7349	7424	7498	7573	7648	7723	7798	7873	7947	
05		8022	8097	8172	8247	8321	8396	8471	8546	8621	8695	
06		8770	8845	8920	8995	9069	9144	9219	9294	9369	9443	
07		9518	9593	9668	9743	9817	9892	9967	0042	0116	0191	
08	764	0266	0341	0416	0490	0565	0640	0715	0789	0864	0939	
09		1014	1088	1163	1238	1313	1388	1462	1537	1612	1687	
5810		1761	1836	1911	1986	2060	2135	2210	2284	2359	2434	75
11		2509	2583	2658	2733	2808	2882	2957	3032	3107	3181	1-7
12		3256	3331	3405	3480	3555	3630	3704	3779	3854	3928	2-15
13		4003	4078	4153	4227	4302	4377	4451	4526	4601	4676	3-22
14		4750	4825	4900	4974	5049	5124	5198	5273	5348	5422	4-30
15		5497	5572	5647	5721	5796	5871	5945	6020	6095	6169	5-37
16		6244	6319	6393	6468	6543	6617	6692	6767	6841	6916	6-45
17		6991	7065	7140	7215	7289	7364	7439	7513	7588	7662	7-52
18		7737	7812	7886	7961	8036	8110	8185	8260	8334	8409	8-60
19		8484	8558	8633	8707	8782	8857	8931	9006	9081	9155	9-67
5820		9230	9304	9379	9454	9528	9603	9678	9752	9827	9901	
21		9976	0051	0125	0200	0274	0349	0424	0498	0573	0647	
22	765	0722	0797	0871	0946	1020	1095	1170	1244	1319	1393	
23		1468	1542	1617	1692	1766	1841	1915	1990	2064	2139	
24		2214	2288	2363	2437	2512	2586	2661	2736	2810	2885	
25		2959	3034	3108	3183	3257	3332	3407	3481	3556	3630	
26		3705	3779	3854	3928	4003	4077	4152	4227	4301	4376	
27		4450	4525	4599	4674	4748	4823	4897	4972	5046	5121	
28		5195	5270	5344	5419	5493	5568	5642	5717	5791	5866	
29		5941	6015	6090	6164	6239	6313	6388	6462	6537	6611	
5830		6686	6760	6834	6909	6983	7058	7132	7207	7281	7356	74
31		7430	7505	7579	7654	7728	7803	7877	7952	8026	8101	1-7
32		8175	8250	8324	8399	8473	8547	8622	8696	8771	8845	2-15
33		8920	8994	9069	9143	9218	9292	9366	9441	9515	9590	3-22
34		9664	9739	9813	9888	9962	0036	0111	0185	0260	0334	4-30
35	766	0409	0483	0557	0632	0706	0781	0855	0930	1004	1078	5-37
36		1153	1227	1302	1376	1450	1525	1599	1674	1748	1822	6-44
37		1897	1971	2046	2120	2194	2269	2343	2418	2492	2566	7-52
38		2641	2715	2790	2864	2938	3013	3087	3162	3236	3310	8-59
39		3385	3459	3533	3608	3682	3757	3831	3905	3980	4054	9-67
5840		4128	4203	4277	4352	4426	4500	4575	4649	4723	4798	
41		4872	4946	5021	5095	5169	5244	5318	5392	5467	5541	
42		5616	5690	5764	5838	5913	5987	6061	6136	6210	6284	
43		6359	6433	6507	6582	6656	6730	6805	6879	6953	7028	
44		7102	7176	7251	7325	7399	7474	7548	7622	7696	7771	
45		7845	7919	7994	8068	8142	8217	8291	8365	8439	8514	
46		8588	8662	8737	8811	8885	8959	9034	9108	9182	9257	
47		9331	9405	9479	9554	9628	9702	9777	9851	9925	9999	
48		0074	0148	0222	0296	0371	0445	0519	0593	0668	0742	
49		0816	0890	0965	1039	1113	1187	1262	1336	1410	1484	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
5850	767	1559	1633	1707	1781	1856	1930	2004	2078	2152	2227	
51		2301	2375	2449	2524	2598	2672	2746	2820	2895	2969	
52		3043	3117	3192	3266	3340	3414	3488	3563	3637	3711	
53		3785	3859	3934	4008	4082	4156	4230	4305	4379	4453	
54		4527	4601	4676	4750	4824	4898	4972	5046	5121	5195	
55		5269	5343	5417	5491	5566	5640	5714	5788	5862	5936	
56		6011	6085	6159	6233	6307	6381	6456	6530	6604	6678	
57		6752	6826	6900	6975	7049	7123	7197	7271	7345	7419	
58		7494	7568	7642	7716	7790	7864	7938	8013	8087	8161	
59		8235	8309	8383	8457	8531	8606	8680	8754	8828	8902	
5860		8976	9050	9124	9198	9273	9347	9421	9495	9569	9643	74
61		9717	9791	9865	9939	0014	0088	0162	0236	0310	0384	1—7
62	768	0458	0532	0606	0680	0754	0829	0903	0977	1051	1125	2—15
63		1199	1273	1347	1421	1495	1569	1643	1717	1791	1866	3—22
64		1940	2014	2088	2162	2236	2310	2384	2458	2532	2606	4—30
65		2680	2754	2828	2902	2976	3050	3124	3198	3272	3347	5—37
66		3421	3495	3569	3643	3717	3791	3865	3939	4013	4087	6—44
67		4161	4235	4309	4383	4457	4531	4605	4679	4753	4827	7—52
68		4901	4975	5049	5123	5197	5271	5345	5419	5493	5567	8—59
69		5641	5715	5789	5863	5937	6011	6085	6159	6233	6307	9—67
5870		6381	6455	6529	6603	6677	6751	6825	6899	6973	7047	
71		7121	7195	7269	7343	7417	7491	7565	7639	7712	7786	
72		7860	7934	8008	8082	8156	8230	8304	8378	8452	8526	
73		8600	8674	8748	8822	8896	8970	9044	9118	9191	9265	
74		9339	9413	9487	9561	9635	9709	9783	9857	9931	0005	
75	769	0079	0153	0227	0300	0374	0448	0522	0596	0670	0744	
76		0818	0892	0966	1040	1113	1187	1261	1335	1409	1483	
77		1557	1631	1705	1779	1852	1926	2000	2074	2148	2222	
78		2296	2370	2444	2517	2591	2665	2739	2813	2887	2961	
79		3035	3108	3182	3256	3330	3404	3478	3552	3625	3699	
5880		3773	3847	3921	3995	4069	4142	4216	4290	4364	4438	73
81		4512	4586	4659	4733	4807	4881	4955	5029	5102	5176	1—7
82		5250	5324	5398	5472	5545	5619	5693	5767	5841	5915	2—15
83		5988	6062	6136	6210	6284	6358	6431	6505	6579	6653	3—22
84		6727	6800	6874	6948	7022	7096	7169	7243	7317	7391	4—29
85		7465	7538	7612	7686	7760	7834	7907	7981	8055	8129	5—36
86		8203	8276	8350	8424	8498	8571	8645	8719	8793	8867	6—44
87		8940	9014	9088	9162	9235	9309	9383	9457	9530	9604	7—51
88		9678	9752	9825	9899	9973	0047	0120	0194	0268	0342	8—58
89	770	0415	0489	0563	0637	0710	0784	0858	0932	1005	1079	9—66
5890		1153	1227	1300	1374	1448	1522	1595	1669	1743	1816	
91		1890	1964	2038	2111	2185	2259	2332	2406	2480	2554	
92		2627	2701	2775	2848	2922	2996	3070	3143	3217	3291	
93		3364	3438	3512	3585	3659	3733	3807	3880	3954	4028	
94		4101	4175	4249	4322	4396	4470	4543	4617	4691	4764	
95		4838	4912	4985	5059	5133	5206	5280	5354	5427	5501	
96		5575	5648	5722	5796	5869	5943	6017	6090	6164	6238	
97		6311	6385	6459	6532	6606	6679	6753	6827	6900	6974	
98		7048	7121	7195	7269	7342	7416	7489	7563	7637	7710	
99		7784	7858	7931	8005	8078	8152	8226	8299	8373	8446	
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01	9256	9330	9403	9477	9550	9624	9698	9771	9845	9918		
02	9992	0066	0139	0213	0286	0360	0433	0507	0581	0654		
03	771 0728	0801	0875	0948	1022	1096	1169	1243	1316	1390		
04	1463	1537	1611	1684	1758	1831	1905	1978	2052	2125		
05	2199	2273	2346	2420	2493	2567	2640	2714	2787	2861		
06	2934	3008	3081	3155	3229	3302	3376	3449	3523	3596		
07	3670	3743	3817	3890	3964	4037	4111	4184	4258	4331		
08	4405	4478	4552	4625	4699	4772	4846	4919	4993	5066		
09	5140	5213	5287	5360	5434	5507	5581	5654	5728	5801		
5910	5875	5948	6022	6095	6169	6242	6316	6389	6463	6536		74
11	6610	6683	6756	6830	6903	6977	7050	7124	7197	7271		1—7
12	7344	7418	7491	7565	7638	7711	7785	7858	7932	8005		2—15
13	8079	8152	8226	8299	8373	8446	8519	8593	8666	8740		3—22
14	8813	8887	8960	9033	9107	9180	9254	9327	9401	9474		4—30
15	9547	9621	9694	9768	9841	9915	9988	0061	0135	0208		5—37
16	772 0282	0355	0428	0502	0575	0649	0722	0795	0869	0942		6—44
17	1016	1089	1162	1236	1309	1383	1456	1529	1603	1676		7—52
18	1750	1823	1896	1970	2043	2116	2190	2263	2337	2410		8—59
19	2483	2557	2630	2703	2777	2850	2924	2997	3070	3144		9—67
5920	3217	3290	3364	3437	3510	3584	3657	3731	3804	3877		
21	3951	4024	4097	4171	4244	4317	4391	4464	4537	4611		
22	4684	4757	4831	4904	4977	5051	5124	5197	5271	5344		
23	5417	5491	5564	5637	5711	5784	5857	5931	6004	6077		
24	6150	6224	6297	6370	6444	6517	6590	6664	6737	6810		
25	6883	6957	7030	7103	7177	7250	7323	7397	7470	7543		73
26	7616	7690	7763	7836	7910	7983	8056	8129	8203	8276		1—7
27	8349	8422	8496	8569	8642	8716	8789	8862	8935	9009		2—15
28	9082	9155	9228	9302	9375	9448	9521	9595	9668	9741		3—22
29	9814	9888	9961	0034	0107	0181	0254	0327	0400	0474		4—29
5930	773 0547	0620	0693	0767	0840	0913	0986	1060	1133	1206		5—36
31	1279	1352	1426	1499	1572	1645	1719	1792	1865	1938		6—44
32	2011	2085	2158	2231	2304	2377	2451	2524	2597	2670		7—51
33	2743	2817	2890	2963	3036	3109	3183	3256	3329	3402		8—58
34	3475	3549	3622	3695	3768	3841	3914	3988	4061	4134		9—66
35	4207	4280	4354	4427	4500	4573	4646	4719	4793	4866		
36	4939	5012	5085	5158	5232	5305	5378	5451	5524	5597		
37	5670	5744	5817	5890	5963	6036	6109	6182	6256	6329		
38	6402	6475	6548	6621	6694	6768	6841	6914	6987	7060		
39	7133	7206	7279	7353	7426	7499	7572	7645	7718	7791		
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41	8595	8669	8742	8815	8888	8961	9034	9107	9180	9253		
42	9326	9400	9473	9546	9619	9692	9765	9838	9911	9984		
43	774 0057	0130	0203	0276	0350	0423	0496	0569	0642	0715		
44	0788	0861	0934	1007	1080	1153	1226	1299	1372	1445		
45	1519	1592	1665	1738	1811	1884	1957	2030	2103	2176		
46	2249	2322	2395	2468	2541	2614	2687	2760	2833	2906		
47	2979	3052	3125	3198	3271	3344	3417	3490	3564	3637		
48	3710	3783	3856	3929	4002	4075	4148	4221	4294	4367	73	
49	4440	4513	4586	4659	4732	4805	4878	4951	5024	5097		
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51	5899	5972	6045	6118	6191	6264	6337	6410	6483	6556		
52	6629	6702	6775	6848	6921	6994	7067	7140	7213	7286		
53	7359	7432	7505	7578	7651	7724	7796	7869	7942	8015		
54	8088	8161	8234	8307	8380	8453	8526	8599	8672	8745		
55	8818	8891	8963	9036	9109	9182	9255	9328	9401	9474		
56	9547	9620	9693	9766	9839	9911	9984	0057	0130	0203		
57	775	0276	0349	0422	0495	0568	0640	0713	0786	0859	0932	
58	1005	1078	1151	1224	1297	1369	1442	1515	1588	1661		
59	1734	1807	1880	1952	2025	2098	2171	2244	2317	2390		
5960	2463	2535	2608	2681	2754	2827	2900	2973	3045	3118		73
61	3191	3264	3337	3410	3483	3555	3628	3701	3774	3847		1-7
62	3920	3993	4065	4138	4211	4284	4357	4430	4502	4575		2-15
63	4648	4721	4794	4867	4939	5012	5085	5158	5231	5303		3-22
64	5376	5449	5522	5595	5668	5740	5813	5886	5959	6032		4-29
65	6104	6177	6250	6323	6396	6468	6541	6614	6687	6760		5-36
66	6832	6905	6978	7051	7124	7196	7269	7342	7415	7488		6-44
67	7560	7633	7706	7779	7851	7924	7997	8070	8143	8215		7-51
68	8288	8361	8434	8506	8579	8652	8725	8797	8870	8943		8-58
69	9016	9088	9161	9234	9307	9380	9452	9525	9598	9671		9-66
5970	9743	9816	9889	9961	0034	0107	0180	0252	0325	0398		
71	770	0471	0543	0616	0689	0762	0834	0907	0980	1052	1125	
72	1198	1271	1343	1416	1489	1562	1634	1707	1780	1852		
73	1925	1998	2071	2143	2216	2289	2361	2434	2507	2579		
74	2652	2725	2798	2870	2943	3016	3088	3161	3234	3306		
75	3379	3452	3524	3597	3670	3742	3815	3888	3960	4033		
76	4106	4179	4251	4324	4397	4469	4542	4615	4687	4760		
77	4833	4905	4978	5050	5123	5196	5268	5341	5414	5486		
78	5559	5632	5704	5777	5850	5922	5995	6068	6140	6213		
79	6285	6358	6431	6503	6576	6649	6721	6794	6867	6939		
5980	7012	7084	7157	7230	7302	7375	7448	7520	7593	7665		72
81	7738	7811	7883	7956	8028	8101	8174	8246	8319	8391		1-7
82	8464	8537	8609	8682	8754	8827	8900	8972	9045	9117		2-14
83	9190	9263	9335	9408	9480	9553	9625	9698	9771	9843		3-22
84	9916	9988	0061	0134	0206	0279	0351	0424	0496	0569		4-29
85	777	0641	0714	0787	0859	0932	1004	1077	1149	1222	1295	
86	1367	1440	1512	1585	1657	1730	1802	1875	1947	2020		5-36
87	2093	2165	2238	2310	2383	2455	2528	2600	2673	2745		6-43
88	2818	2890	2963	3035	3108	3180	3253	3326	3398	3471		7-50
89	3543	3616	3688	3761	3833	3906	3978	4051	4123	4196		8-58
5990	4268	4341	4413	4486	4558	4631	4703	4776	4848	4921		9-65
91	4993	5066	5138	5211	5283	5356	5428	5501	5573	5646		
92	5718	5790	5863	5935	6008	6080	6153	6225	6298	6370		
93	6443	6515	6588	6660	6733	6805	6878	6950	7022	7095		
94	7167	7240	7312	7385	7457	7530	7602	7674	7747	7819		
95	7892	7964	8037	8109	8182	8254	8326	8399	8471	8544		
96	8616	8689	8761	8833	8906	8978	9051	9123	9196	9268		
97	9340	9413	9485	9558	9630	9703	9775	9847	9920	9992		
98	778	0065	0137	0209	0282	0354	0427	0499	0571	0644	0716	
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02		2960	3032	3105	3177	3249	3322	3394	3466	3539	3611	
03		3683	3756	3828	3900	3973	4045	4117	4190	4262	4334	
04		4407	4479	4551	4624	4696	4768	4841	4913	4985	5058	
05		5130	5202	5275	5347	5419	5492	5564	5636	5709	5781	
06		5853	5926	5998	6070	6142	6215	6287	6359	6432	6504	
07		6576	6649	6721	6793	6865	6938	7010	7082	7155	7227	
08		7299	7371	7444	7516	7588	7661	7733	7805	7877	7950	
09		8022	8094	8167	8239	8311	8383	8456	8528	8600	8672	
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11		9407	9539	9612	9684	9756	9828	9901	9973	0045	0117	73
12	779	0190	0262	0334	0406	0479	0551	0623	0695	0768	0840	1-7
13		0912	0984	1056	1129	1201	1273	1345	1418	1490	1562	2-15
14		1634	1706	1779	1851	1923	1995	2067	2140	2212	2284	3-22
15		2356	2428	2501	2573	2645	2717	2789	2862	2934	3006	4-29
16		3078	3150	3223	3295	3367	3439	3511	3584	3656	3728	5-36
17		3800	3872	3944	4017	4089	4161	4233	4305	4377	4450	6-44
18		4522	4594	4666	4738	4810	4883	4955	5027	5099	5171	7-51
19		5243	5316	5388	5460	5532	5604	5676	5748	5821	5893	8-58
6020		5965	6037	6109	6181	6253	6326	6398	6470	6542	6614	9-66
21		6686	6758	6830	6903	6975	7047	7119	7191	7263	7335	
22		7407	7480	7552	7624	7696	7768	7840	7912	7984	8056	
23		8129	8201	8273	8345	8417	8489	8561	8633	8705	8777	
24		8850	8922	8994	9066	9138	9210	9282	9354	9426	9498	
25		9570	9643	9715	9787	9859	9931	0003	0075	0147	0219	
26	780	0291	0363	0435	0507	0579	0652	0724	0796	0868	0940	
27		1012	1084	1156	1228	1300	1372	1444	1516	1588	1660	
28		1732	1804	1876	1949	2021	2093	2165	2237	2309	2381	
29		2453	2525	2597	2669	2741	2813	2885	2957	3029	3101	
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31		3893	3965	4037	4109	4181	4253	4325	4397	4469	4541	72
32		4613	4685	4757	4829	4901	4973	5045	5117	5189	5261	1-7
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34		6053	6125	6197	6269	6341	6413	6485	6557	6629	6701	3-22
35		6773	6845	6917	6989	7061	7132	7204	7276	7348	7420	4-29
36		7492	7564	7636	7708	7780	7852	7924	7996	8068	8140	5-36
37		8212	8284	8356	8428	8499	8571	8643	8715	8787	8859	6-43
38		8931	9003	9075	9147	9219	9291	9363	9434	9506	9578	7-50
39		9650	9722	9794	9866	9938	0010	0082	0154	0226	0297	8-58
6040	781	0369	0441	0513	0585	0657	0729	0801	0873	0945	1016	9-65
41		1088	1160	1232	1304	1376	1448	1520	1592	1663	1735	
42		1807	1879	1950	2023	2095	2167	2238	2310	2382	2454	
43		2526	2598	2670	2741	2813	2885	2957	3029	3101	3173	
44		3245	3316	3388	3460	3532	3604	3676	3747	3819	3891	
45		3963	4035	4107	4179	4250	4322	4394	4466	4538	4610	
46		4681	4753	4825	4897	4969	5041	5112	5184	5256	5328	
47		5400	5471	5543	5615	5687	5759	5831	5902	5974	6046	
48		6118	6190	6261	6333	6405	6477	6549	6620	6692	6764	
49		6836	6908	6979	7051	7123	7195	7267	7338	7410	7482	
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51		8271	8343	8415	8487	8559	8630	8702	8774	8846	8917	
52		8989	9061	9133	9204	9276	9348	9420	9491	9563	9635	
53		9707	9778	9850	9922	9994	0065	0137	0209	0281	0352	
54	782	0424	0496	0568	0639	0711	0783	0855	0926	0998	1070	
55		1141	1213	1285	1357	1428	1500	1572	1643	1715	1787	
56		1859	1930	2002	2074	2145	2217	2289	2361	2432	2504	
57		2576	2647	2719	2791	2862	2934	3006	3078	3149	3221	
58		3293	3364	3436	3508	3579	3651	3723	3794	3866	3938	
59		4009	4081	4153	4225	4296	4368	4440	4511	4583	4655	
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61		5443	5514	5586	5658	5729	5801	5873	5944	6016	6088	1-7
62		6159	6231	6303	6374	6446	6517	6589	6661	6732	6804	2-14
63		6876	6947	7019	7091	7162	7234	7305	7377	7449	7520	3-22
64		7592	7663	7735	7807	7878	7950	8022	8093	8165	8236	4-20
65		8308	8380	8451	8523	8594	8666	8738	8809	8881	8952	5-36
66		9024	9096	9167	9239	9310	9382	9454	9525	9597	9668	6-43
67		9740	9811	9883	9955	0026	0098	0169	0241	0313	0384	7-50
68	783	0456	0527	0599	0670	0742	0814	0885	0957	1028	1100	8-58
69		1171	1243	1314	1386	1458	1529	1601	1672	1744	1815	9-60
6070		1887	1958	2030	2101	2173	2245	2316	2388	2459	2531	
71		2602	2674	2745	2817	2888	2960	3031	3103	3175	3246	
72		3318	3389	3461	3532	3604	3675	3747	3818	3890	3961	
73		4033	4104	4176	4247	4319	4390	4462	4533	4605	4676	
74		4748	4819	4891	4962	5034	5105	5177	5248	5320	5391	
75		5463	5534	5606	5677	5749	5820	5892	5963	6035	6106	
76		6178	6249	6321	6392	6464	6535	6606	6678	6749	6821	
77		6892	6964	7035	7107	7178	7250	7321	7393	7464	7535	
78		7607	7678	7750	7821	7893	7964	8036	8107	8178	8250	
79		8321	8393	8464	8536	8607	8679	8750	8821	8893	8964	
6080		9036	9107	9179	9250	9321	9393	9464	9536	9607	9679	71
81		9750	9821	9893	9964	0036	0107	0178	0250	0321	0393	1-7
82	784	0464	0536	0607	0678	0750	0821	0893	0964	1035	1107	2-14
83		1178	1250	1321	1392	1464	1535	1606	1678	1749	1821	3-21
84		1892	1963	2035	2106	2178	2249	2320	2392	2463	2534	4-28
85		2606	2677	2749	2820	2891	2963	3034	3105	3177	3248	5-35
86		3319	3391	3462	3534	3605	3676	3748	3819	3890	3962	6-43
87		4033	4104	4176	4247	4318	4390	4461	4532	4604	4675	7-50
88		4746	4818	4889	4960	5032	5103	5174	5246	5317	5388	8-57
89		5460	5531	5602	5674	5745	5816	5888	5959	6030	6102	9-64
6090		6173	6244	6315	6387	6458	6529	6601	6672	6743	6815	
91		6886	6957	7029	7100	7171	7242	7314	7385	7456	7528	
92		7599	7670	7741	7813	7884	7955	8027	8098	8169	8240	
93		8312	8383	8454	8526	8597	8668	8739	8811	8882	8953	
94		9024	9096	9167	9238	9310	9381	9452	9523	9595	9666	
95		9737	9808	9880	9951	0022	0093	0165	0236	0307	0378	
96	785	0450	0521	0592	0663	0734	0806	0877	0948	1019	1091	
97		1162	1233	1304	1376	1447	1518	1589	1660	1732	1803	
98		1874	1945	2017	2088	2159	2230	2301	2373	2444	2515	
99		2586	2657	2729	2800	2871	2942	3014	3085	3156	3227	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

# N. 61000 L. 785

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6100	785	3298	3369	3441	3512	3583	3654	3725	3797	3868	3939	
01	4019	4081	4153	4224	4295	4366	4437	4508	4580	4651		
02	4722	4793	4864	4935	5007	5078	5149	5220	5291	5362		
03	5434	5505	5576	5647	5718	5789	5861	5932	6003	6074		
04	6145	6216	6287	6359	6430	6501	6572	6643	6714	6785		
05	6857	6928	6999	7070	7141	7212	7283	7355	7426	7497		
06	7568	7639	7710	7781	7852	7924	7995	8066	8137	8208		
07	8279	8350	8421	8492	8564	8635	8706	8777	8848	8919		
08	8990	9061	9132	9204	9275	9346	9417	9488	9559	9630		
09	9701	9772	9843	9914	9986	0057	0128	0199	0270	0341		
6110	786	0412	0483	0554	0625	0696	0767	0839	0910	0981	1052	72
11	1123	1194	1265	1336	1407	1478	1549	1620	1691	1762		1—7
12	1833	1904	1976	2047	2118	2189	2260	2331	2402	2473		2—14
13	2544	2615	2686	2757	2828	2899	2970	3041	3112	3183		3—22
14	3254	3325	3396	3467	3538	3609	3680	3751	3823	3894		4—29
15	3965	4036	4107	4178	4249	4320	4391	4462	4533	4604		5—36
16	4675	4746	4817	4888	4959	5030	5101	5172	5243	5314	71	6—43
17	5385	5456	5527	5598	5669	5740	5811	5882	5953	6024		7—50
18	6095	6166	6237	6308	6379	6450	6521	6592	6663	6734		8—58
19	6804	6875	6946	7017	7088	7159	7230	7301	7372	7443		9—65
6120	7514	7585	7656	7727	7798	7869	7940	8011	8082	8153		
21	8224	8295	8366	8437	8508	8578	8649	8720	8791	8862		
22	8933	9004	9075	9146	9217	9288	9359	9430	9501	9572		
23	9643	9713	9784	9855	9926	9997	0068	0139	0210	0281		
24	787	0352	0423	0494	0565	0635	0706	0777	0848	0919	0990	
25	1061	1132	1203	1274	1344	1415	1486	1557	1628	1699		
26	1770	1841	1912	1983	2053	2124	2195	2266	2337	2408		
27	2479	2550	2621	2691	2762	2833	2904	2975	3046	3117		
28	3188	3258	3329	3400	3471	3542	3613	3684	3754	3825		
29	3896	3967	4038	4109	4180	4250	4321	4392	4463	4534		
6130	4605	4676	4746	4817	4888	4959	5030	5101	5171	5242	71	
31	5313	5384	5455	5526	5596	5667	5738	5809	5880	5951		1—7
32	6021	6092	6163	6234	6305	6376	6446	6517	6588	6659		2—14
33	6730	6800	6871	6942	7013	7084	7154	7225	7296	7367		3—21
34	7438	7508	7579	7650	7721	7792	7862	7933	8004	8075		4—28
35	8146	8216	8287	8358	8429	8500	8570	8641	8712	8783		5—35
36	8853	8924	8995	9066	9137	9207	9278	9349	9420	9490		6—43
37	9561	9632	9703	9773	9844	9915	9986	0057	0127	0198		7—50
38	788	0269	0340	0410	0481	0552	0623	0693	0764	0835	0906	
39	0976	1047	1118	1189	1259	1330	1401	1471	1542	1613		8—57
6140	1684	1754	1825	1896	1967	2037	2108	2179	2249	2320		9—64
41	2391	2462	2532	2603	2674	2745	2815	2886	2957	3027		
42	3098	3169	3239	3310	3381	3452	3522	3593	3664	3734		
43	3805	3876	3946	4017	4088	4159	4229	4300	4371	4441		
44	4512	4583	4653	4724	4795	4865	4936	5007	5077	5148		
45	5219	5289	5360	5431	5502	5572	5643	5714	5784	5855		
46	5926	5996	6067	6137	6208	6279	6349	6420	6491	6561		
47	6632	6703	6773	6844	6915	6985	7056	7127	7197	7268		
48	7339	7409	7480	7550	7621	7692	7762	7833	7904	7974		
49	8045	8116	8186	8257	8327	8398	8469	8539	8610	8680		
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5150	7888751	8822	8892	8963	9034	9104	9175	9245	9316	9387		
51	9457	9528	9598	9669	9740	9810	9881	9951	0022	0093		
52	7890163	0234	0304	0375	0446	0516	0587	0657	0728	0799		
53	0869	0940	1010	1081	1151	1222	1293	1363	1434	1504		
54	1575	1645	1716	1787	1857	1928	1998	2069	2139	2210		
55	2281	2351	2422	2492	2563	2633	2704	2774	2845	2916		
56	2986	3057	3127	3198	3268	3339	3409	3480	3550	3621		
57	3691	3762	3833	3903	3974	4044	4115	4185	4256	4326		
58	4397	4467	4538	4608	4679	4749	4820	4890	4961	5031		
59	5102	5173	5243	5314	5384	5455	5525	5596	5666	5737		
6160	5807	5878	5948	6019	6089	6160	6230	6301	6371	6442		71
61	6512	6583	6653	6724	6794	6864	6935	7005	7076	7146		1-7
62	7217	7287	7358	7428	7499	7569	7640	7710	7781	7851		2-14
63	7922	7992	8063	8133	8203	8274	8344	8415	8485	8556		3-21
64	8626	8697	8767	8838	8908	8979	9049	9119	9189	9260		4-28
65	9331	9401	9472	9542	9613	9683	9753	9824	9894	9965		5-35
66	7900035	0106	0176	0246	0317	0387	0458	0528	0599	0669		6-43
67	0739	0810	0880	0951	1021	1092	1162	1232	1303	1373		7-50
68	1444	1514	1584	1655	1725	1796	1866	1936	2007	2077		8-57
69	2148	2218	2288	2359	2429	2500	2570	2640	2711	2781		9-64
6170	2852	2922	2992	3063	3133	3204	3274	3344	3415	3485		
71	3555	3626	3696	3767	3837	3907	3978	4048	4118	4189		
72	4259	4329	4400	4470	4541	4611	4681	4752	4822	4892		
73	4903	5033	5103	5174	5244	5314	5385	5455	5526	5596		
74	5666	5737	5807	5877	5948	6018	6088	6159	6229	6299		
75	6379	6440	6510	6581	6651	6721	6792	6862	6932	7003		
76	7073	7143	7213	7284	7354	7424	7495	7565	7635	7706		
77	7776	7846	7917	7987	8057	8127	8198	8268	8338	8409		
78	8479	8549	8620	8690	8760	8830	8901	8971	9041	9112		
79	9182	9252	9322	9393	9463	9533	9604	9674	9744	9814		
6180	9885	9955	0025	0096	0166	0236	0306	0377	0447	0517		70
81	7910587	0658	0728	0798	0868	0939	1009	1079	1149	1220		1-7
82	1290	1360	1430	1501	1571	1641	1711	1782	1852	1922		2-14
83	1992	2063	2133	2203	2273	2344	2414	2484	2554	2625		3-21
84	2695	2765	2835	2905	2976	3046	3116	3186	3257	3327		4-28
85	3397	3467	3537	3608	3678	3748	3818	3888	3959	4029		5-35
86	4099	4169	4240	4310	4380	4450	4520	4591	4661	4731		6-42
87	4801	4871	4942	5012	5082	5152	5222	5292	5363	5433		7-49
88	5503	5573	5643	5714	5784	5854	5924	5994	6064	6135		8-56
89	6205	6275	6345	6415	6485	6556	6626	6696	6766	6836		9-63
6190	6906	6977	7047	7117	7187	7257	7327	7398	7468	7538		
91	7608	7678	7748	7818	7889	7959	8029	8099	8169	8239		
92	8309	8380	8450	8520	8590	8660	8730	8800	8870	8941		
93	9011	9081	9151	9221	9291	9361	9431	9502	9572	9642		
94	9712	9782	9852	9922	9992	0063	0133	0203	0273	0343		
95	7920413	0483	0553	0623	0693	0764	0834	0904	0974	1044		
96	1114	1184	1254	1324	1394	1464	1535	1605	1675	1745		
97	1815	1885	1955	2025	2095	2165	2235	2305	2376	2446		
98	2516	2586	2656	2726	2796	2866	2936	3006	3076	3146		
99	3216	3286	3356	3426	3497	3567	3637	3707	3777	3847		
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6200	792	3917	3987	4057	4127	4197	4267	4337	4407	4477	4547	
01		4617	4687	4757	4827	4897	4967	5037	5107	5178	5248	
02		5318	5388	5458	5528	5598	5668	5738	5808	5878	5948	
03		6018	6088	6158	6228	6298	6368	6438	6508	6578	6648	70
04		6718	6788	6858	6928	6998	7068	7138	7208	7278	7348	
05		7418	7488	7558	7628	7698	7768	7838	7908	7978	8048	
06		8118	8188	8258	8328	8398	8468	8538	8607	8677	8747	
07		8817	8887	8957	9027	9097	9167	9237	9307	9377	9447	
08		9517	9587	9657	9727	9797	9867	9937	0007	0077	0147	
09	793	0217	0286	0356	0426	0496	0566	0636	0706	0776	0846	
6210		0916	0986	1056	1126	1196	1266	1336	1405	1475	1545	70
11		1615	1685	1755	1825	1895	1965	2035	2105	2175	2245	1-7
12		2314	2384	2454	2524	2594	2664	2734	2804	2874	2944	2-14
13		3013	3083	3153	3223	3293	3363	3433	3503	3573	3643	3-21
14		3712	3782	3852	3922	3992	4062	4132	4202	4272	4341	4-28
15		4411	4481	4551	4621	4691	4761	4831	4900	4970	5040	5-35
16		5110	5180	5250	5320	5389	5459	5529	5599	5669	5739	6-42
17		5809	5878	5948	6018	6088	6158	6228	6298	6367	6437	7-49
18		6507	6577	6647	6717	6786	6856	6926	6996	7066	7136	8-56
19		7206	7275	7345	7415	7485	7555	7624	7694	7764	7834	9-63
6220		7904	7974	8043	8113	8183	8253	8323	8393	8462	8532	
21		8602	8672	8742	8811	8881	8951	9021	9091	9160	9230	
22		9300	9370	9440	9509	9579	9649	9719	9789	9858	9928	
23		9998	0068	0138	0207	0277	0347	0417	0486	0556	0626	
24	794	0696	0766	0835	0905	0975	1045	1114	1184	1254	1324	
25		1394	1463	1533	1603	1673	1742	1812	1882	1952	2021	
26		2091	2161	2231	2300	2370	2440	2510	2579	2649	2719	
27		2789	2858	2928	2998	3068	3137	3207	3277	3347	3416	
28		3486	3556	3625	3695	3765	3835	3904	3974	4044	4114	
29		4183	4253	4323	4392	4462	4532	4602	4671	4741	4811	
6230		4880	4950	5020	5090	5159	5229	5299	5368	5438	5508	69
31		5577	5647	5717	5787	5856	5926	5996	6065	6135	6205	1-7
32		6274	6344	6414	6483	6553	6623	6693	6762	6832	6902	2-14
33		6971	7041	7111	7180	7250	7320	7389	7459	7529	7598	3-21
34		7668	7738	7807	7877	7947	8016	8086	8156	8225	8295	4-28
35		8365	8434	8504	8573	8643	8713	8782	8852	8922	8991	5-34
36		9061	9131	9200	9270	9340	9409	9479	9548	9618	9688	6-41
37		9757	9827	9897	9966	0036	0106	0175	0245	0314	0384	7-48
38	795	0454	0523	0593	0663	0732	0802	0871	0941	1011	1080	8-55
39		1150	1219	1289	1359	1428	1498	1567	1637	1707	1776	9-62
6240		1846	1915	1985	2055	2124	2194	2263	2333	2403	2472	
41		2542	2611	2681	2751	2820	2890	2959	3029	3098	3168	
42		3238	3307	3377	3446	3516	3585	3655	3725	3794	3864	
43		3933	4003	4072	4142	4212	4281	4351	4420	4490	4559	
44		4629	4698	4768	4838	4907	4977	5046	5116	5185	5255	
45		5324	5394	5463	5533	5603	5672	5742	5811	5881	5950	
46		6020	6089	6159	6228	6298	6367	6437	6506	6576	6645	
47		6715	6785	6854	6924	6993	7063	7132	7202	7271	7341	
48		7410	7480	7549	7619	7688	7758	7827	7897	7966	8036	
49		8105	8175	8244	8314	8383	8453	8522	8592	8661	8731	
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6250	795	8800	8870	8939	9009	9078	9148	9217	9287	9356	9425	
51		9495	9564	9634	9703	9773	9842	9912	9981	0051	0120	
52	796	0190	0259	0329	0398	0467	0537	0606	0676	0745	0815	
53		0884	0954	1023	1093	1162	1231	1301	1370	1440	1509	
54		1579	1648	1718	1787	1856	1926	1995	2065	2134	2204	
55		2273	2343	2412	2481	2551	2620	2690	2759	2829	2898	
56		2967	3037	3106	3176	3245	3314	3384	3453	3523	3592	
57		3662	3731	3800	3870	3939	4009	4078	4147	4217	4286	
58		4356	4425	4494	4564	4633	4703	4772	4841	4911	4980	
59		5049	5119	5188	5258	5327	5396	5466	5535	5605	5674	
6260		5743	5813	5882	5951	6021	6090	6160	6229	6298	6368	70
61		6437	6506	6576	6645	6714	6784	6853	6923	6992	7061	1—7
62		7131	7200	7269	7339	7408	7477	7547	7616	7685	7755	2—14
63		7824	7893	7963	8032	8101	8171	8240	8309	8379	8448	3—21
64		8517	8587	8656	8725	8795	8864	8933	9003	9072	9141	4—28
65		9211	9280	9349	9419	9488	9557	9627	9696	9765	9835	5—35
66		9904	9973	0042	0112	0181	0250	0320	0389	0458	0528	6—42
67	797	0597	0666	0735	0805	0874	0943	1013	1082	1151	1221	7—49
68		1290	1359	1428	1498	1567	1636	1706	1775	1844	1913	8—56
69		1983	2052	2121	2190	2260	2329	2398	2468	2537	2606	9—63
6270		2675	2745	2814	2883	2952	3022	3091	3160	3229	3299	
71		3368	3437	3506	3576	3645	3714	3783	3853	3922	3991	
72		4060	4130	4199	4268	4337	4407	4476	4545	4614	4684	
73		4753	4822	4891	4961	5030	5099	5168	5237	5307	5376	
74		5445	5514	5584	5653	5722	5791	5860	5930	5999	6068	
75		6137	6206	6276	6345	6414	6483	6552	6622	6691	6760	
76		6829	6898	6968	7037	7106	7175	7244	7314	7383	7452	
77		7521	7590	7660	7729	7798	7867	7936	8006	8075	8144	
78		8213	8282	8351	8421	8490	8559	8628	8697	8766	8836	
79		8905	8974	9043	9112	9181	9251	9320	9389	9458	9527	
6280		9596	9666	9735	9804	9873	9942	0011	0080	0150	0219	69
81	798	0288	0357	0426	0495	0564	0634	0703	0772	0841	0910	1—7
82		0979	1048	1118	1187	1256	1325	1394	1463	1532	1601	2—14
83		1671	1740	1809	1878	1947	2016	2085	2154	2223	2293	3—21
84		2362	2431	2500	2569	2638	2707	2776	2845	2915	2984	4—28
85		3053	3122	3191	3260	3329	3398	3467	3536	3606	3675	5—34
86		3744	3813	3882	3951	4020	4089	4158	4227	4296	4365	6—41
87		4435	4504	4573	4642	4711	4780	4849	4918	4987	5056	7—48
88		5125	5194	5263	5332	5402	5471	5540	5609	5678	5747	8—55
89		5816	5885	5954	6023	6092	6161	6230	6299	6368	6437	9—62
6290		6506	6575	6644	6714	6783	6852	6921	6990	7059	7128	
91		7197	7266	7335	7404	7473	7542	7611	7680	7749	7818	
92		7887	7956	8025	8094	8163	8232	8301	8370	8439	8508	
93		8577	8646	8715	8784	8853	8922	8991	9060	9129	9198	
94		9267	9336	9405	9474	9543	9612	9681	9750	9819	9888	69
95		9957	0026	0095	0164	0233	0302	0371	0440	0509	0578	
96	799	0647	0716	0785	0854	0923	0992	1061	1130	1199	1268	
97		1337	1406	1475	1544	1613	1682	1751	1820	1889	1958	
98		2027	2095	2164	2233	2302	2371	2440	2509	2578	2647	
99		2716	2785	2854	2923	2992	3061	3130	3199	3268	3337	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6300	7993405	3474	3543	3612	3681	3750	3819	3888	3957	4026		
01	4095	4164	4233	4302	4370	4439	4508	4577	4646	4715		
02	4784	4853	4922	4991	5060	5128	5197	5266	5335	5404		
03	5473	5542	5611	5680	5749	5818	5886	5955	6024	6093		
04	6162	6231	6300	6369	6438	6506	6575	6644	6713	6782		
05	6851	6920	6989	7057	7126	7195	7264	7333	7402	7471		
06	7540	7608	7677	7746	7815	7884	7953	8022	8091	8159		
07	8228	8297	8366	8435	8504	8573	8641	8710	8779	8848		
08	8917	8986	9054	9123	9192	9261	9330	9399	9468	9536		
09	9605	9674	9743	9812	9881	9949	0018	0087	0156	0225		
6310	8000294	0362	0431	0500	0569	0638	0706	0775	0844	0913		69
11	0982	1051	1119	1188	1257	1326	1395	1463	1532	1601		1—7
12	1670	1739	1807	1876	1945	2014	2083	2151	2220	2289		2—14
13	2358	2427	2495	2564	2633	2702	2771	2839	2908	2977		3—21
14	3046	3115	3183	3252	3321	3390	3458	3527	3596	3665		4—28
15	3733	3802	3871	3940	4009	4077	4146	4215	4284	4352		5—34
16	4421	4490	4559	4627	4696	4765	4834	4902	4971	5040		6—41
17	5109	5177	5246	5315	5384	5452	5521	5590	5659	5727		7—48
18	5796	5865	5934	6002	6071	6140	6209	6277	6346	6415		8—55
19	6484	6552	6621	6690	6758	6827	6896	6965	7033	7102		9—62
6320	7171	7239	7308	7377	7446	7514	7583	7652	7720	7789		
21	7858	7927	7995	8064	8133	8201	8270	8339	8407	8476		
22	8545	8614	8682	8751	8820	8888	8957	9026	9094	9163		
23	9232	9300	9369	9438	9506	9575	9644	9713	9781	9850		
24	9919	9987	0056	0125	0193	0262	0331	0399	0468	0537		
25	8010605	0674	0743	0811	0880	0949	1017	1086	1155	1223		
26	1292	1360	1429	1498	1566	1635	1704	1772	1841	1910		
27	1978	2047	2116	2184	2253	2321	2390	2459	2527	2596		
28	2665	2733	2802	2871	2939	3008	3076	3145	3214	3282		
29	3351	3420	3488	3557	3625	3694	3763	3831	3900	3968		
6330	4037	4106	4174	4243	4311	4380	4449	4517	4586	4654		68
31	4723	4792	4860	4929	4997	5066	5135	5203	5272	5340		1—7
32	5409	5478	5546	5615	5683	5752	5821	5889	5958	6026		2—14
33	6095	6163	6232	6301	6369	6438	6506	6575	6643	6712		3—20
34	6781	6849	6918	6986	7055	7123	7192	7260	7329	7398		4—27
35	7466	7535	7603	7672	7740	7809	7877	7946	8015	8083		5—34
36	8152	8220	8289	8357	8426	8494	8563	8631	8700	8768		6—41
37	8837	8906	8974	9043	9111	9180	9248	9317	9385	9454		7—48
38	9522	9591	9659	9728	9796	9865	9933	0002	0070	0139		8—54
39	8020207	0276	0344	0413	0482	0550	0619	0687	0755	0824		9—61
6340	0893	0961	1030	1098	1167	1235	1304	1372	1441	1509		
41	1577	1646	1714	1783	1851	1920	1988	2057	2125	2194		
42	2262	2331	2399	2468	2536	2605	2673	2742	2810	2879		
43	2947	3016	3084	3152	3221	3289	3358	3426	3495	3563		
44	3632	3700	3769	3837	3906	3974	4042	4111	4179	4248		
45	4316	4385	4453	4522	4590	4658	4727	4795	4864	4932		
46	5001	5069	5137	5206	5274	5343	5411	5480	5548	5617		
47	5685	5753	5822	5890	5959	6027	6095	6164	6232	6301		
48	6369	6438	6506	6574	6643	6711	6780	6848	6916	6985		
49	7053	7122	7190	7258	7327	7395	7464	7532	7600	7669		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 63500 L. 802

Name	0	1	2	3	4	5	6	7	8	9	D	Pta.
6350	802	7737	7806	7874	7942	8011	8079	8148	8216	8284	8353	
51		8421	8489	8558	8626	8695	8763	8831	8900	8968	9036	
52		9105	9173	9242	9310	9378	9447	9515	9583	9652	9720	
53		9789	9857	9925	9994	0062	0130	0199	0267	0335	0404	
54	803	0472	0540	0609	0677	0745	0814	0882	0950	1019	1087	
55		1155	1224	1292	1361	1429	1497	1566	1634	1702	1771	
56		1839	1907	1975	2044	2112	2180	2249	2317	2385	2454	
57		2522	2590	2659	2727	2795	2864	2932	3000	3069	3137	
58		3205	3273	3342	3410	3478	3547	3615	3683	3752	3820	
59		3888	3956	4025	4093	4161	4230	4298	4366	4435	4503	
6360		4571	4639	4708	4776	4844	4913	4981	5049	5117	5186	68
61		5254	5322	5390	5459	5527	5595	5664	5732	5800	5868	1-7
62		5937	6005	6073	6141	6210	6278	6346	6414	6483	6551	2-14
63		6619	6687	6756	6824	6892	6960	7029	7097	7165	7233	3-20
64		7302	7370	7438	7506	7575	7643	7711	7779	7848	7916	4-27
65		7984	8052	8120	8189	8257	8325	8393	8462	8530	8598	5-34
66		8666	8735	8803	8871	8939	9007	9076	9144	9212	9280	6-41
67		9348	9417	9485	9553	9621	9689	9758	9826	9894	9962	7-48
68	804	0030	0099	0167	0235	0303	0371	0440	0508	0576	0644	8-54
69		0712	0781	0849	0917	0985	1053	1122	1190	1258	1326	9-61
6370		1394	1462	1531	1599	1667	1735	1803	1871	1940	2008	
71		2076	2144	2212	2280	2349	2417	2485	2553	2621	2689	
72		2758	2826	2894	2962	3030	3098	3167	3235	3303	3371	
73		3439	3507	3575	3644	3712	3780	3848	3916	3984	4052	
74		4121	4189	4257	4325	4393	4461	4529	4597	4666	4734	
75		4802	4870	4938	5006	5074	5142	5211	5279	5347	5415	
76		5483	5551	5619	5687	5755	5824	5892	5960	6028	6096	
77		6164	6232	6300	6368	6437	6505	6573	6641	6709	6777	
78		6845	6913	6981	7049	7117	7186	7254	7322	7390	7458	
79		7526	7594	7662	7730	7798	7866	7934	8003	8071	8139	
6380		8207	8275	8343	8411	8479	8547	8615	8683	8751	8819	67
81		8887	8955	9024	9092	9160	9228	9296	9364	9432	9500	1-7
82		9568	9636	9704	9772	9840	9908	9976	0044	0112	0180	2-13
83	805	0248	0316	0384	0453	0521	0589	0657	0725	0793	0861	3-20
84		0929	0997	1065	1133	1201	1269	1337	1405	1473	1541	4-27
85		1609	1677	1745	1813	1881	1949	2017	2085	2153	2221	5-33
86		2289	2357	2425	2493	2561	2629	2697	2765	2833	2901	6-40
87		2969	3037	3105	3173	3241	3309	3377	3445	3513	3581	7-47
88		3649	3717	3785	3853	3921	3989	4057	4125	4193	4261	8-54
89		4329	4397	4465	4533	4601	4669	4737	4805	4873	4941	9-60
6390		5009	5076	5144	5212	5280	5348	5416	5484	5552	5620	
91		5688	5756	5824	5892	5960	6028	6096	6164	6232	6300	
92		6368	6436	6503	6571	6639	6707	6775	6843	6911	6979	
93		7047	7115	7183	7251	7319	7387	7455	7522	7590	7658	
94		7726	7794	7862	7930	7998	8066	8134	8202	8270	8338	
95		8405	8473	8541	8609	8677	8745	8813	8881	8949	9017	
96		9085	9152	9220	9288	9356	9424	9492	9560	9628	9696	
97		9763	9831	9899	9967	0035	0103	0171	0239	0307	0374	
98	806	0442	0510	0578	0646	0714	0782	0850	0917	0985	1053	
99		1121	1189	1257	1325	1393	1460	1528	1596	1664	1732	
Name	0	1	2	3	4	5	6	7	8	9	D	Pro.

Nam	0	1	2	3	4	5	6	7	8	9	D	Pta.
6400	8061800	1868	1935	2003	2071	2139	2207	2275	2343	2410		
01	2478	2546	2614	2682	2750	2817	2885	2953	3021	3089		
02	3157	3224	3292	3360	3428	3496	3564	3631	3699	3767		
03	3835	3903	3971	4038	4106	4174	4242	4310	4378	4445		
04	4513	4581	4649	4717	4784	4852	4920	4988	5056	5123		
05	5191	5259	5327	5395	5463	5530	5598	5666	5734	5801		
06	5869	5937	6005	6073	6140	6208	6276	6344	6412	6479		
07	6547	6615	6683	6751	6818	6886	6954	7022	7089	7157		
08	7225	7293	7361	7428	7496	7564	7632	7699	7767	7835		
09	7903	7970	8038	8106	8174	8241	8309	8377	8445	8512		
6410	8580	8648	8716	8783	8851	8919	8987	9054	9122	9190		68
11	9258	9325	9393	9461	9529	9596	9664	9732	9800	9867		1—7
12	9935	0003	0071	0138	0206	0374	0341	0409	0477	0545		2—14
13	8070612	0680	0748	0816	0883	0951	1019	1086	1154	1222		3—20
14	1290	1357	1425	1493	1560	1628	1696	1763	1831	1899		4—27
15	1967	2034	2102	2170	2237	2305	2373	2440	2508	2576		5—34
16	2644	2711	2779	2847	2914	2982	3050	3117	3185	3253		6—41
17	3320	3388	3456	3523	3591	3659	3726	3794	3862	3929		7—48
18	3997	4065	4132	4200	4268	4335	4403	4471	4538	4606		8—54
19	4674	4741	4809	4877	4944	5012	5080	5147	5215	5283		9—61
6420	5350	5418	5486	5553	5621	5688	5756	5824	5891	5959		
21	6027	6094	6162	6230	6297	6365	6432	6500	6568	6635		
22	6703	6771	6838	6906	6973	7041	7109	7176	7244	7312		
23	7379	7447	7514	7582	7650	7717	7785	7852	7920	7988		
24	8055	8123	8190	8258	8326	8393	8461	8528	8596	8664		
25	8731	8799	8866	8934	9002	9069	9137	9204	9272	9340		
26	9407	9475	9542	9610	9677	9745	9813	9880	9948	0015		
27	8080083	0151	0218	0286	0353	0421	0488	0556	0624	0691		
28	0759	0826	0894	0961	1029	1096	1164	1232	1299	1367		
29	1434	1502	1569	1637	1704	1772	1840	1907	1975	2042		
6430	2110	2177	2245	2312	2380	2447	2515	2582	2650	2718		67
31	2785	2853	2920	2988	3055	3123	3190	3258	3325	3393		1—7
32	3460	3528	3595	3663	3730	3798	3865	3933	4000	4068		2—13
33	4135	4203	4270	4338	4405	4473	4541	4608	4676	4743		3—20
34	4811	4878	4946	5013	5081	5148	5215	5283	5350	5418		4—27
35	5485	5553	5620	5688	5755	5823	5890	5958	6025	6093		5—33
36	6160	6228	6295	6363	6430	6498	6565	6633	6700	6768		6—40
37	6835	6903	6970	7037	7105	7172	7240	7307	7375	7442		7—47
38	7510	7577	7645	7712	7779	7847	7914	7982	8049	8117		8—54
39	8184	8252	8319	8387	8454	8521	8589	8656	8724	8791		9—60
6440	8859	8926	8993	9061	9128	9196	9263	9331	9398	9466		
41	9533	9600	9668	9735	9803	9870	9937	0005	0072	0140		
42	8090207	0275	0342	0409	0477	0544	0612	0679	0746	0814		
43	0881	0949	1016	1083	1151	1218	1286	1353	1420	1488		
44	1555	1623	1690	1757	1825	1892	1960	2027	2094	2162		
45	2229	2297	2364	2431	2499	2566	2633	2701	2768	2836		
46	2903	2970	3038	3105	3172	3240	3307	3375	3442	3509		
47	3577	3644	3711	3779	3846	3913	3981	4048	4116	4183		
48	4250	4318	4385	4452	4520	4587	4654	4722	4789	4856		
49	4924	4991	5058	5126	5193	5260	5328	5395	5462	5530		
Nam	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 64500 L. 809

Nam	0	1	2	3	4	5	6	7	8	9	D	Pts.
6450	809	5597	5664	5732	5799	5866	5934	6001	6068	6136	6203	
51		6270	6338	6405	6472	6540	6607	6674	6742	6809	6876	
52		6944	7011	7078	7145	7213	7280	7347	7415	7482	7549	
53		7617	7684	7751	7819	7886	7953	8020	8088	8155	8222	
54		8290	8357	8424	8491	8559	8626	8693	8761	8828	8895	
55		8962	9030	9097	9164	9232	9299	9366	9433	9501	9568	
56		9635	9702	9770	9837	9904	9972	0039	0106	0173	0241	
57	810	0308	0375	0442	0510	0577	0644	0711	0779	0846	0913	
58		0980	1048	1115	1182	1249	1317	1384	1451	1518	1586	
59		1653	1720	1787	1855	1922	1989	2056	2123	2191	2258	
6460		2325	2392	2460	2527	2594	2661	2728	2796	2863	2930	67
61		2997	3065	3132	3199	3266	3333	3401	3468	3535	3602	1-7
62		3669	3737	3804	3871	3938	4006	4073	4140	4207	4274	2-13
63		4342	4409	4476	4543	4610	4677	4745	4812	4879	4946	3-20
64		5013	5081	5148	5215	5282	5349	5417	5484	5551	5618	4-22
65		5685	5752	5820	5887	5954	6021	6088	6155	6223	6290	5-33
66		6357	6424	6491	6558	6626	6693	6760	6827	6894	6961	6-40
67		7029	7096	7163	7230	7297	7364	7431	7499	7566	7633	7-47
68		7700	7767	7834	7901	7969	8036	8103	8170	8237	8304	8-54
69		8371	8439	8506	8573	8640	8707	8774	8841	8909	8976	9-60
6470		9043	9110	9177	9244	9311	9378	9445	9513	9580	9647	
71		9714	9781	9848	9915	9982	0050	0117	0184	0251	0318	
72	811	0385	0452	0519	0586	0653	0721	0788	0855	0922	0989	
73		1056	1123	1190	1257	1324	1391	1459	1526	1593	1660	
74		1727	1794	1861	1928	1995	2062	2129	2196	2264	2331	
75		2398	2465	2532	2599	2666	2733	2800	2867	2934	3001	
76		3068	3135	3202	3270	3337	3404	3471	3538	3605	3672	
77		3739	3806	3873	3940	4007	4074	4141	4208	4275	4342	
78		4409	4476	4543	4611	4678	4745	4812	4879	4946	5013	
79		5080	5147	5214	5281	5348	5415	5482	5549	5616	5683	
6480		5750	5817	5884	5951	6018	6085	6152	6219	6286	6353	66
81		6420	6487	6554	6621	6688	6755	6822	6889	6956	7023	1-7
82		7090	7157	7224	7291	7358	7425	7492	7559	7626	7693	2-13
83		7760	7827	7894	7961	8028	8095	8162	8229	8296	8363	3-20
84		8430	8497	8564	8631	8698	8765	8832	8899	8966	9033	4-26
85		9100	9167	9234	9301	9368	9435	9502	9569	9635	9702	5-33
86		9769	9836	9903	9970	0037	0104	0171	0238	0305	0372	6-40
87	812	0439	0506	0573	0640	0707	0774	0841	0908	0974	1041	7-46
88		1108	1175	1242	1309	1376	1443	1510	1577	1644	1711	8-53
89		1778	1845	1912	1978	2045	2112	2179	2246	2313	2380	9-59
6490		2447	2514	2581	2648	2715	2781	2848	2915	2982	3049	
91		3116	3183	3250	3317	3384	3451	3517	3584	3651	3718	
92		3785	3852	3919	3986	4053	4120	4186	4253	4320	4387	
93		4454	4521	4588	4655	4722	4788	4855	4922	4989	5056	
94		5123	5190	5257	5323	5390	5457	5524	5591	5658	5725	
95		5792	5858	5925	5992	6059	6126	6193	6260	6326	6393	
96		6466	6527	6594	6661	6728	6794	6861	6928	6995	7062	
97		7129	7195	7262	7329	7396	7463	7530	7597	7663	7730	
98		7797	7864	7931	7998	8064	8131	8198	8265	8332	8398	
99		8465	8532	8599	8666	8733	8799	8866	8933	9000	9067	
Nam	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D Pts.	
6500	812	9134	9200	9267	9334	9401	9468	9534	9601	9668	9735	
01		9802	9868	9935	0002	0069	0136	0202	0269	0336	0403	
02	813	0470	0536	0603	0670	0737	0804	0870	0937	1004	1071	
03		1137	1204	1271	1338	1405	1471	1538	1605	1672	1739	
04		1805	1872	1939	2006	2072	2139	2206	2273	2339	2406	
05		2473	2540	2606	2673	2740	2807	2874	2940	3007	3074	
06		3141	3207	3274	3341	3408	3474	3541	3608	3675	3741	
07		3808	3875	3942	4008	4075	4142	4208	4275	4342	4409	
08		4475	4542	4609	4676	4742	4809	4876	4942	5009	5076	
09		5143	5209	5276	5343	5410	5476	5543	5610	5676	5743	
6510		5810	5877	5943	6010	6077	6143	6210	6277	6343	6410	67
11		6477	6544	6610	6677	6744	6810	6877	6944	7010	7077	1-7
12		7144	7211	7277	7344	7411	7477	7544	7611	7677	7744	2-13
13		7811	7877	7944	8011	8077	8144	8211	8277	8344	8411	3-20
14		8477	8544	8611	8678	8744	8811	8877	8944	9011	9077	4-27
15		9144	9211	9277	9344	9411	9477	9544	9611	9677	9744	5-33
16		9811	9877	9944	0011	0077	0144	0211	0277	0344	0411	6-40
17	814	0477	0544	0610	0677	0744	0810	0877	0944	1010	1077	7-47
18		1144	1210	1277	1343	1410	1477	1543	1610	1677	1743	8-54
19		1810	1876	1943	2010	2076	2143	2209	2276	2343	2409	9-60
6520		2476	2543	2609	2676	2742	2809	2876	2942	3009	3075	
21		3142	3208	3275	3342	3408	3475	3542	3608	3675	3741	
22		3808	3874	3941	4008	4074	4141	4207	4274	4341	4407	
23		4474	4540	4607	4673	4740	4807	4873	4940	5006	5073	
24		5139	5206	5273	5339	5406	5472	5539	5605	5672	5739	
25		5805	5872	5938	6005	6071	6138	6204	6271	6338	6404	
26		6471	6537	6604	6670	6737	6803	6870	6936	7003	7070	
27		7136	7203	7269	7336	7402	7469	7535	7602	7668	7735	
28		7801	7868	7934	8001	8068	8134	8201	8267	8334	8400	
29		8467	8533	8600	8666	8733	8799	8866	8932	8999	9065	66
6530		9132	9198	9265	9331	9398	9464	9531	9597	9664	9730	1-7
31		9797	9863	9930	9996	0063	0129	0196	0262	0329	0395	2-13
32	815	0462	0528	0595	0661	0728	0794	0861	0927	0994	1060	3-20
33		1127	1193	1259	1326	1392	1459	1525	1592	1658	1725	4-26
34		1791	1858	1924	1991	2057	2124	2190	2256	2323	2389	5-33
35		2456	2522	2589	2655	2722	2788	2855	2921	2987	3054	6-40
36		3120	3187	3253	3320	3386	3453	3519	3585	3652	3718	7-46
37		3785	3851	3918	3984	4051	4117	4183	4250	4316	4383	8-53
38		4449	4516	4582	4648	4715	4781	4848	4914	4980	5047	9-59
39		5113	5180	5246	5313	5379	5445	5512	5578	5645	5711	
6540		5777	5844	5910	5977	6043	6109	6176	6242	6309	6375	
41		6441	6508	6574	6641	6707	6773	6840	6906	6973	7039	
42		7105	7172	7238	7305	7371	7437	7504	7570	7636	7703	
43		7769	7836	7902	7968	8035	8101	8167	8234	8300	8366	
44		8433	8499	8566	8632	8698	8765	8831	8897	8964	9030	
45		9096	9163	9229	9296	9362	9428	9494	9561	9627	9694	
46		9760	9826	9893	9959	0025	0092	0158	0224	0291	0357	
47	816	0423	0490	0556	0622	0689	0755	0821	0888	0954	1020	
48		1087	1153	1219	1286	1352	1418	1485	1551	1617	1684	
49		1750	1816	1882	1949	2015	2081	2148	2214	2280	2347	
Next	0	1	2	3	4	5	6	7	8	9	D Pro.	

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6550	816	2413	2479	2546	2612	2678	2744	2811	2877	2943	3010	
51	3076	3142	3209	3275	3341	3407	3474	3540	3606	3673		
52	3739	3805	3871	3938	4004	4070	4137	4203	4269	4335		
53	4402	4468	4534	4600	4667	4733	4799	4866	4932	4998		
54	5064	5131	5197	5263	5329	5396	5462	5528	5594	5661		
55	5727	5793	5859	5926	5992	6058	6124	6191	6257	6323		
56	6389	6456	6522	6588	6654	6721	6787	6853	6919	6986		
57	7052	7118	7184	7250	7317	7383	7449	7515	7582	7648		
58	7714	7780	7847	7913	7979	8045	8111	8178	8244	8310		
59	8376	8442	8509	8575	8641	8707	8774	8840	8906	8972		
6560	9038	9105	9171	9237	9303	9369	9436	9502	9568	9634		66
61	9700	9767	9833	9899	9965	0031	0097	0164	0230	0296		1-7
62	817	0362	0428	0495	0561	0627	0693	0759	0825	0892		2-13
63	1024	1090	1156	1223	1289	1355	1421	1487	1553	1620		3-20
64	1686	1752	1818	1884	1950	2016	2083	2149	2215	2281		4-26
65	2347	2413	2480	2546	2612	2678	2744	2810	2876	2943		5-33
66	3009	3075	3141	3207	3273	3339	3406	3472	3538	3604		6-40
67	3670	3736	3802	3869	3935	4001	4067	4133	4199	4265		7-46
68	4331	4398	4464	4530	4596	4662	4728	4794	4860	4926		8-53
69	4993	5059	5125	5191	5257	5323	5389	5455	5521	5588		9-59
6570	5654	5720	5786	5852	5918	5984	6050	6116	6182	6249		
71	6315	6381	6447	6513	6579	6645	6711	6777	6843	6909		
72	6975	7042	7108	7174	7240	7306	7372	7438	7504	7570		
73	7636	7702	7768	7834	7901	7967	8033	8099	8165	8231		
74	8297	8363	8429	8495	8561	8627	8693	8759	8825	8891		
75	8958	9024	9090	9156	9222	9288	9354	9420	9486	9552		
76	9618	9684	9750	9816	9882	9948	0014	0080	0146	0212		
77	818	0278	0344	0410	0476	0542	0609	0675	0741	0807		
78	0939	1005	1071	1137	1203	1269	1335	1401	1467	1533		
79	1599	1665	1731	1797	1863	1929	1995	2061	2127	2193	66	65
6580	2259	2325	2391	2457	2523	2589	2655	2721	2787	2853		1-6
81	2919	2985	3051	3117	3183	3249	3315	3381	3447	3513		2-13
82	3579	3645	3711	3777	3843	3909	3975	4041	4107	4173		3-19
83	4239	4304	4370	4436	4502	4568	4634	4700	4766	4832		4-26
84	4898	4964	5030	5096	5162	5228	5294	5360	5426	5492		5-32
85	5558	5624	5690	5756	5822	5887	5953	6019	6085	6151		6-39
86	6217	6283	6349	6415	6481	6547	6613	6679	6745	6811		7-45
87	6877	6943	7008	7074	7140	7206	7272	7338	7404	7470		8-52
88	7536	7602	7668	7734	7800	7865	7931	7997	8063	8129		9-58
89	8195	8261	8327	8393	8459	8525	8590	8656	8722	8788		
6590	8854	8920	8986	9052	9118	9184	9249	9315	9381	9447		
91	9513	9579	9645	9711	9777	9843	9908	9974	0040	0106		
92	819	0172	0238	0304	0370	0435	0501	0567	0633	0699		
93	0831	0897	0962	1028	1094	1160	1226	1292	1358	1424		
94	1489	1555	1621	1687	1753	1819	1885	1950	2016	2082		
95	2148	2214	2280	2346	2411	2477	2543	2609	2675	2741		
96	2806	2872	2938	3004	3070	3136	3201	3267	3333	3399		
97	3465	3531	3596	3662	3728	3794	3860	3926	3991	4057		
98	4123	4189	4255	4321	4386	4452	4518	4584	4650	4715		
99	4781	4847	4913	4979	5044	5110	5176	5242	5308	5374		
Num	0	1	2	3	4	5	6	7	8	9	D	Pre

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6600	819	5439	5505	5571	5637	5703	5768	5834	5900	5966	6031	
01	6097	6163	6229	6295	6360	6426	6492	6558	6624	6689		
02	6755	6821	6887	6952	7018	7084	7150	7216	7281	7347		
03	7413	7479	7544	7610	7676	7742	7808	7873	7939	8005		
04	8071	8136	8202	8268	8334	8399	8465	8531	8597	8662		
05	8728	8794	8860	8925	8991	9057	9123	9188	9254	9320		
06	9386	9451	9517	9583	9649	9714	9780	9846	9912	9977		
07	8200043	0109	0174	0240	0306	0372	0437	0503	0569	0635		
08	0700	0766	0832	0897	0963	1029	1095	1160	1226	1292		
09	1357	1423	1489	1555	1620	1686	1752	1817	1883	1949		
6610	2015	2080	2146	2212	2277	2343	2409	2474	2540	2606		66
11	2672	2737	2803	2869	2934	3000	3066	3131	3197	3263		1—7
12	3328	3394	3460	3525	3591	3657	3722	3788	3854	3920		2—13
13	3985	4051	4117	4182	4248	4314	4379	4445	4511	4576		3—20
14	4642	4708	4773	4839	4904	4970	5036	5101	5167	5233		4—26
15	5298	5364	5430	5495	5561	5627	5692	5758	5824	5889		5—33
16	5955	6021	6086	6152	6217	6283	6349	6414	6480	6546		6—40
17	6611	6677	6743	6808	6874	6939	7005	7071	7136	7202		7—46
18	7268	7333	7399	7464	7530	7596	7661	7727	7793	7858		8—53
19	7924	7989	8055	8121	8186	8252	8317	8383	8449	8514		9—59
6620	8580	8645	8711	8777	8842	8908	8973	9039	9105	9170		
21	9236	9301	9367	9433	9498	9564	9629	9695	9761	9826		
22	9892	9957	0023	0088	0154	0220	0285	0351	0416	0482		
23	8210548	0613	0679	0744	0810	0875	0941	1006	1072	1138		
24	1203	1269	1334	1400	1465	1531	1597	1662	1728	1793		
25	1859	1924	1990	2055	2121	2187	2252	2318	2383	2449		
26	2514	2580	2645	2711	2776	2842	2908	2973	3039	3104		
27	3170	3235	3301	3366	3432	3497	3563	3628	3694	3759		
28	3825	3890	3956	4022	4087	4153	4218	4284	4349	4415		
29	4480	4546	4611	4677	4742	4808	4873	4939	5004	5070		
6630	5135	5201	5266	5332	5397	5463	5528	5594	5659	5725		65
31	5790	5856	5921	5987	6052	6118	6183	6249	6314	6380		1—6
32	6445	6511	6576	6642	6707	6773	6838	6903	6969	7034		2—13
33	7100	7165	7231	7296	7362	7427	7493	7558	7624	7689		3—19
34	7755	7820	7886	7951	8016	8082	8147	8213	8278	8344		4—26
35	8409	8475	8540	8606	8671	8736	8802	8867	8933	8998		5—32
36	9064	9129	9195	9260	9325	9391	9456	9522	9587	9653		6—39
37	9718	9784	9849	9914	9980	0045	0111	0176	0242	0307		7—45
38	8220372	0438	0503	0569	0634	0700	0765	0830	0896	0961		8—52
39	1027	1092	1157	1223	1288	1354	1419	1485	1550	1615		9—58
6640	1681	1746	1812	1877	1942	2008	2073	2139	2204	2269		
41	2335	2400	2466	2531	2596	2662	2727	2793	2858	2923		
42	2989	3054	3119	3185	3250	3316	3381	3446	3512	3577		
43	3642	3708	3773	3839	3904	3969	4035	4100	4165	4231		
44	4296	4362	4427	4492	4558	4623	4688	4754	4819	4884		
45	4950	5015	5081	5146	5211	5277	5342	5407	5473	5538		
46	5603	5669	5734	5799	5865	5930	5995	6061	6126	6191		
47	6257	6322	6387	6453	6518	6583	6649	6714	6779	6845		
48	6910	6975	7041	7106	7171	7237	7302	7367	7433	7498		
49	7563	7629	7694	7759	7825	7890	7955	8020	8086	8151		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
0650	822	8216	8282	8347	8412	8478	8543	8608	8674	8739	8804	
51		8869	8935	9000	9065	9131	9196	9261	9326	9392	9457	
52		9522	9588	9653	9718	9783	9849	9914	9979	0045	0110	
53	823	0175	0240	0306	0371	0436	0502	0567	0632	0697	0763	
54		0828	0893	0958	1024	1089	1154	1220	1285	1350	1415	
55		1481	1546	1611	1676	1742	1807	1872	1937	2003	2068	
56		2133	2198	2264	2329	2394	2459	2525	2590	2655	2720	
57		2786	2851	2916	2981	3046	3112	3177	3242	3307	3373	
58		3438	3503	3568	3634	3699	3764	3829	3894	3960	4025	
59		4090	4155	4221	4286	4351	4416	4481	4547	4612	4677	
6660		4742	4807	4873	4938	5003	5068	5133	5200	5264	5329	65
61		5394	5459	5525	5590	5655	5720	5785	5851	5916	5981	1—6
62		6046	6111	6177	6242	6307	6372	6437	6503	6568	6633	2—13
63		6698	6763	6828	6894	6959	7024	7089	7154	7219	7285	3—19
64		7350	7415	7480	7545	7611	7676	7741	7806	7871	7936	4—26
65		8002	8067	8132	8197	8262	8327	8392	8458	8523	8588	5—32
66		8653	8718	8783	8848	8914	8979	9044	9109	9174	9239	6—39
67		9305	9370	9435	9500	9565	9630	9695	9760	9826	9891	7—45
68		9956	0021	0086	0151	0216	0282	0347	0412	0477	0542	8—52
69	824	0607	0672	0737	0802	0868	0933	0998	1063	1128	1193	9—58
6670		1258	1323	1389	1454	1519	1584	1649	1714	1779	1844	
71		1909	1974	2040	2105	2170	2235	2300	2365	2430	2495	
72		2560	2625	2691	2756	2821	2886	2951	3016	3081	3146	
73		3211	3276	3341	3406	3472	3537	3602	3667	3732	3797	
74		3862	3927	3992	4057	4122	4187	4252	4317	4383	4448	
75		4513	4578	4643	4708	4773	4838	4903	4968	5033	5098	
76		5163	5228	5293	5358	5423	5488	5554	5619	5684	5749	
77		5814	5879	5944	6009	6074	6139	6204	6269	6334	6399	
78		6464	6529	6594	6659	6724	6789	6854	6919	6984	7049	
79		7114	7179	7244	7309	7374	7439	7505	7570	7635	7700	
6680		7765	7830	7895	7960	8025	8090	8155	8220	8285	8350	65
81		8415	8480	8545	8610	8675	8740	8805	8870	8935	9000	64
82		9065	9130	9195	9260	9325	9390	9455	9520	9585	9650	1—6
83		9715	9780	9845	9910	9974	0039	0104	0169	0234	0299	2—13
84	825	0364	0429	0494	0559	0624	0689	0754	0819	0884	0949	3—19
85		1014	1079	1144	1209	1274	1339	1404	1469	1534	1599	4—26
86		1664	1729	1794	1859	1923	1988	2053	2118	2183	2248	5—32
87		2313	2378	2443	2508	2573	2638	2703	2768	2833	2898	6—38
88		2963	3028	3093	3157	3222	3287	3352	3417	3482	3547	7—45
89		3612	3677	3742	3807	3872	3937	4001	4066	4131	4196	8—51
6690		4261	4326	4391	4456	4521	4586	4651	4716	4780	4845	9—58
91		4910	4975	5040	5105	5170	5235	5300	5365	5429	5494	
92		5559	5624	5689	5754	5819	5884	5949	6014	6078	6143	
93		6208	6273	6338	6403	6468	6533	6598	6662	6727	6792	
94		6857	6922	6987	7052	7117	7181	7246	7311	7376	7441	
95		7506	7571	7635	7700	7765	7830	7895	7960	8025	8089	
96		8154	8219	8284	8349	8414	8479	8544	8608	8673	8738	
97		8803	8868	8933	8997	9062	9127	9192	9257	9322	9387	
98		9451	9516	9581	9646	9711	9776	9840	9905	9970	0035	
99	826	0100	0165	0229	0294	0359	0424	0489	0554	0618	0683	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

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6700	8260748	0813	0878	0942	1007	1072	1137	1202	1267	1331		
01	1396	1461	1526	1591	1655	1720	1785	1850	1915	1979		
02	2044	2109	2174	2239	2303	2368	2433	2498	2563	2627		
03	2692	2757	2822	2887	2951	3016	3081	3146	3210	3275		
04	3340	3405	3470	3534	3599	3664	3729	3793	3858	3923		
05	3988	4053	4117	4182	4247	4312	4376	4441	4506	4571		
06	4635	4700	4765	4830	4894	4959	5024	5089	5154	5218		
07	5283	5348	5413	5477	5542	5607	5672	5736	5801	5866		
08	5931	5995	6060	6125	6189	6254	6319	6384	6448	6513		
09	6578	6643	6707	6772	6837	6902	6966	7031	7096	7160		
6710	7225	7290	7355	7419	7484	7549	7613	7678	7743	7808		65
11	7872	7937	8002	8066	8131	8196	8261	8325	8390	8455		1—6
12	8519	8584	8649	8714	8778	8843	8908	8972	9037	9102		2—13
13	9166	9231	9296	9361	9425	9490	9555	9619	9684	9749		3—19
14	9813	9878	9943	0007	0072	0137	0201	0266	0331	0395		4—26
15	8270	0460	0525	0589	0654	0719	0783	0848	0913	0977	1042	5—32
16	1107	1171	1236	1301	1365	1430	1495	1559	1624	1689		6—39
17	1753	1818	1883	1947	2012	2077	2141	2206	2271	2335		7—45
18	2400	2465	2529	2594	2659	2723	2788	2852	2917	2982		8—52
19	3046	3111	3176	3240	3305	3370	3434	3499	3563	3628		9—58
6720	3693	3757	3822	3887	3951	4016	4080	4145	4210	4274		
21	4339	4404	4468	4533	4597	4662	4727	4791	4856	4920		
22	4985	5050	5114	5179	5243	5308	5373	5437	5502	5566		
23	5631	5696	5760	5825	5889	5954	6019	6083	6148	6212		
24	6277	6342	6406	6471	6535	6600	6665	6729	6794	6858		
25	6923	6987	7052	7117	7181	7246	7310	7375	7439	7504		
26	7569	7633	7698	7762	7827	7891	7956	8021	8085	8150		
27	8214	8279	8343	8408	8472	8537	8602	8666	8731	8795		
28	8860	8924	8989	9053	9118	9183	9247	9312	9376	9441		
29	9505	9570	9634	9699	9763	9828	9892	9957	0022	0086		
6730	8280	0151	0215	0280	0344	0409	0473	0538	0602	0667	0731	64
31	0796	0860	0925	0989	1054	1118	1183	1247	1312	1376		1—6
32	1441	1505	1570	1635	1699	1764	1828	1893	1957	2022		2—13
33	2086	2151	2215	2280	2344	2409	2473	2538	2602	2667		3—19
34	2731	2796	2860	2925	2989	3054	3118	3182	3247	3311		4—26
35	3376	3440	3505	3569	3634	3698	3763	3827	3892	3956		5—32
36	4021	4085	4150	4214	4279	4343	4408	4472	4536	4601		6—38
37	4665	4730	4794	4859	4923	4988	5052	5117	5181	5246		7—45
38	5310	5374	5439	5503	5568	5632	5697	5761	5826	5890		8—51
39	5955	6019	6083	6148	6212	6277	6341	6406	6470	6534		9—58
6740	6599	6663	6728	6792	6857	6921	6986	7050	7114	7179		
41	7243	7308	7372	7436	7501	7565	7630	7694	7759	7823		
42	7887	7952	8016	8081	8145	8210	8274	8338	8403	8467		
43	8532	8596	8660	8725	8789	8854	8918	8982	9047	9111		
44	9176	9240	9304	9369	9433	9498	9562	9626	9691	9755		
45	9820	9884	9948	0013	0077	0141	0206	0270	0335	0399		
46	8290	0463	0528	0592	0656	0721	0785	0850	0914	0978	1043	
47	1107	1171	1236	1300	1365	1429	1493	1558	1622	1686		
48	1751	1815	1879	1944	2008	2072	2137	2201	2266	2330		
49	2394	2459	2523	2587	2652	2716	2780	2845	2909	2973		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 67500 L.829

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6750	829	3038	3102	3166	3231	3295	3359	3424	3488	3552	3617	
51	3681	3745	3810	3874	3938	4003	4067	4131	4196	4260		
52	4324	4389	4453	4517	4582	4646	4710	4775	4839	4903		
53	4967	5032	5096	5160	5225	5289	5353	5418	5482	5546		
54	5611	5675	5739	5803	5868	5932	5996	6061	6125	6189		
55	6254	6318	6382	6446	6511	6575	6639	6704	6768	6832		
56	6896	6961	7025	7089	7153	7218	7282	7346	7411	7475		
57	7539	7603	7668	7732	7796	7860	7925	7989	8053	8118		
58	8182	8246	8310	8375	8439	8503	8567	8632	8696	8760		
59	8824	8889	8953	9017	9081	9146	9210	9274	9338	9403		
6760	9467	9531	9595	9660	9724	9788	9852	9917	9981	0045		64
61	830	0109	0174	0238	0302	0366	0430	0495	0559	0623	0687	1—6
62	0752	0816	0880	0944	1009	1073	1137	1201	1265	1330		2—13
63	1394	1458	1522	1586	1651	1715	1779	1843	1908	1972		3—19
64	2036	2100	2164	2229	2293	2357	2421	2485	2550	2614		4—26
65	2678	2742	2806	2871	2935	2999	3063	3127	3192	3256		5—32
66	3320	3384	3448	3512	3577	3641	3705	3769	3833	3898		6—38
67	3962	4026	4090	4154	4218	4283	4347	4411	4475	4539		7—45
68	4604	4668	4732	4796	4860	4924	4988	5053	5117	5181		8—51
69	5245	5309	5373	5438	5502	5566	5630	5694	5758	5822		9—58
6770	5887	5951	6015	6079	6143	6207	6272	6336	6400	6464		
71	6528	6592	6656	6721	6785	6849	6913	6977	7041	7105		
72	7169	7234	7298	7362	7426	7490	7554	7618	7682	7747		
73	7811	7875	7939	8003	8067	8131	8195	8260	8324	8388		
74	8452	8516	8580	8644	8708	8772	8837	8901	8965	9029		
75	9093	9157	9221	9285	9349	9413	9478	9542	9606	9670		
76	9734	9798	9862	9926	9990	0054	0118	0183	0247	0311		
77	831	0375	0439	0503	0567	0631	0695	0759	0823	0887	0952	
78	1016	1080	1144	1208	1272	1336	1400	1464	1528	1592		
79	1656	1720	1784	1848	1913	1977	2041	2105	2169	2233		
6780	2297	2361	2425	2489	2553	2617	2681	2745	2809	2873		63
81	2937	3001	3065	3130	3194	3258	3322	3386	3450	3514		1—6
82	3578	3642	3706	3770	3834	3898	3962	4026	4090	4154		2—13
83	4218	4282	4346	4410	4474	4538	4602	4666	4730	4794		3—19
84	4858	4922	4986	5050	5114	5178	5242	5306	5370	5434		4—25
85	5499	5562	5626	5690	5754	5818	5883	5947	6011	6075	64	5—31
86	6139	6203	6266	6330	6394	6458	6522	6586	6650	6714		6—38
87	6778	6842	6906	6970	7034	7098	7162	7226	7290	7354		7—44
88	7418	7482	7546	7610	7674	7738	7802	7866	7930	7994		8—50
89	8058	8122	8186	8250	8314	8378	8442	8506	8570	8634		9—57
6790	8698	8762	8826	8890	8954	9017	9081	9145	9209	9273		
91	9337	9401	9465	9529	9593	9657	9721	9785	9849	9913		
92	9977	0041	0105	0169	0232	0296	0360	0424	0488	0552		
93	832	0616	0680	0744	0808	0872	0936	1000	1064	1128		
94	1255	1319	1383	1447	1511	1575	1639	1703	1767	1831		
95	1895	1958	2022	2086	2150	2214	2278	2342	2406	2470		
96	2534	2598	2662	2725	2789	2853	2917	2981	3045	3109		
97	3173	3237	3300	3364	3428	3492	3556	3620	3684	3748		
98	3812	3875	3939	4003	4067	4131	4195	4259	4323	4386		
99	4450	4514	4578	4642	4706	4770	4834	4897	4961	5025		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 68000 L. 832

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6800	8325089	5153	5217	5281	5345	5408	5472	5536	5600	5664		
01	5728	5792	5855	5919	5983	6047	6111	6175	6239	6302		
02	6366	6430	6494	6558	6622	6685	6749	6813	6877	6941		
03	7005	7068	7132	7196	7260	7324	7388	7452	7515	7579		
04	7643	7707	7771	7834	7898	7962	8026	8090	8154	8217		
05	8281	8345	8409	8473	8537	8600	8664	8728	8792	8856		
06	8919	8983	9047	9111	9175	9238	9302	9366	9430	9494		
07	9558	9621	9685	9749	9813	9876	9940	0004	0068	0132		
08	8330195	0259	0323	0387	0451	0514	0578	0642	0706	0770		
09	0833	0897	0961	1025	1088	1152	1216	1280	1344	1407		
6810	1471	1535	1599	1662	1726	1790	1854	1917	1981	2045		62
11	2109	2173	2236	2300	2364	2428	2491	2555	2619	2683		1-6
12	2746	2810	2874	2938	3001	3065	3129	3193	3256	3320		2-13
13	3384	3448	3511	3575	3639	3703	3766	3830	3894	3958		3-19
14	4021	4085	4149	4212	4276	4340	4404	4467	4531	4595		4-26
15	4659	4722	4786	4850	4913	4977	5041	5105	5168	5232		5-32
16	5296	5359	5423	5487	5551	5614	5678	5742	5805	5869		6-38
17	5933	5997	6060	6124	6188	6251	6315	6379	6443	6506		7-45
18	6570	6634	6697	6761	6825	6888	6952	7016	7079	7143		8-51
19	7207	7271	7334	7398	7462	7525	7589	7653	7716	7780		9-58
6820	7844	7907	7971	8035	8098	8162	8226	8289	8353	8417		
21	8480	8544	8608	8671	8735	8799	8862	8926	8990	9053		
22	9117	9181	9244	9308	9372	9435	9499	9563	9626	9690		
23	9754	9817	9881	9945	0008	0072	0136	0199	0263	0326		
24	8340390	0454	0517	0581	0645	0708	0772	0836	0899	0963		
25	1027	1090	1154	1217	1281	1345	1408	1472	1536	1599		
26	1663	1726	1790	1854	1917	1981	2045	2108	2172	2235		
27	2299	2363	2426	2490	2553	2617	2681	2744	2808	2871		
28	2935	2999	3062	3126	3189	3253	3317	3380	3444	3507		
29	3571	3635	3698	3762	3825	3889	3953	4016	4080	4143		
6830	4207	4271	4334	4398	4461	4525	4588	4652	4716	4779		63
31	4843	4906	4970	5034	5097	5161	5224	5288	5351	5415		1-6
32	5479	5542	5606	5669	5733	5796	5860	5923	5987	6051		2-13
33	6114	6178	6241	6305	6368	6432	6496	6559	6623	6686		3-19
34	6750	6813	6877	6940	7004	7067	7131	7195	7258	7322		4-25
35	7385	7449	7512	7576	7639	7703	7766	7830	7893	7957		5-31
36	8021	8084	8148	8211	8275	8338	8402	8465	8529	8592		6-38
37	8656	8719	8783	8846	8910	8973	9037	9100	9164	9227		7-44
38	9291	9354	9418	9481	9545	9608	9672	9735	9799	9862		8-50
39	9926	9989	0053	0116	0180	0243	0307	0370	0434	0497		9-57
6840	8350561	0624	0688	0751	0815	0878	0942	1005	1069	1132		
41	1196	1259	1323	1386	1450	1513	1577	1640	1704	1767		
42	1831	1894	1958	2021	2085	2148	2211	2275	2338	2402		
43	2465	2529	2592	2656	2719	2783	2846	2910	2973	3037		
44	3100	3163	3227	3290	3354	3417	3481	3544	3608	3671		
45	3735	3798	3861	3925	3988	4052	4115	4179	4242	4305		
46	4369	4432	4496	4559	4623	4686	4750	4813	4876	4940		
47	5003	5067	5130	5194	5257	5320	5384	5447	5511	5574		
48	5638	5701	5764	5828	5891	5955	6018	6081	6145	6208		
49	6272	6335	6398	6462	6525	6589	6652	6715	6779	6842		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pta.
6850	835	6906	6969	7032	7096	7159	7223	7286	7349	7413	7476	
51	7540	7603	7666	7730	7793	7857	7920	7983	8047	8110		
52	8174	8237	8300	8364	8427	8490	8554	8617	8681	8744		
53	8807	8871	8934	8997	9061	9124	9187	9251	9314	9378		
54	9441	9504	9568	9631	9694	9758	9821	9884	9948	0011		
55	836	0075	0138	0201	0265	0328	0391	0455	0518	0581	0645	
56	0708	0771	0835	0898	0961	1025	1088	1151	1215	1278		
57	1341	1405	1468	1531	1595	1658	1721	1785	1848	1911		
58	1975	2038	2101	2165	2228	2291	2355	2418	2481	2545		
59	2608	2671	2735	2798	2861	2925	2988	3051	3114	3178		
6860	3241	3304	3368	3431	3494	3558	3621	3684	3748	3811		63
61	3874	3937	4001	4064	4127	4191	4254	4317	4381	4444		1—6
62	4507	4570	4634	4697	4760	4824	4887	4950	5013	5077		2—13
63	5140	5203	5266	5330	5393	5456	5520	5583	5646	5709		3—19
64	5773	5836	5899	5963	6026	6089	6152	6216	6279	6342		4—25
65	6405	6469	6532	6595	6658	6722	6785	6848	6911	6975		5—31
66	7038	7101	7164	7228	7291	7354	7417	7481	7544	7607		6—38
67	7670	7734	7797	7860	7923	7987	8050	8113	8176	8240		7—44
68	8303	8366	8429	8493	8556	8619	8682	8745	8809	8872		8—50
69	8935	8998	9062	9125	9188	9251	9314	9378	9441	9504		9—57
6870	9567	9631	9694	9757	9820	9883	9947	0010	0073	0136		
71	837	0199	0263	0326	0389	0452	0515	0579	0642	0705	0768	
72	0832	0895	0958	1021	1084	1147	1211	1274	1337	1400		
73	1463	1527	1590	1653	1716	1779	1843	1906	1969	2032		
74	2095	2158	2222	2285	2348	2411	2474	2538	2601	2664		
75	2727	2790	2853	2916	2980	3043	3106	3169	3232	3295		
76	3359	3422	3485	3548	3611	3674	3738	3801	3864	3927		
77	3990	4053	4116	4180	4243	4306	4369	4432	4495	4559		
78	4622	4685	4748	4811	4874	4937	5000	5064	5127	5190		
79	5253	5316	5379	5442	5506	5569	5632	5695	5758	5821		
6880	5884	5947	6011	6074	6137	6200	6263	6326	6389	6452		62
81	6516	6579	6642	6705	6768	6831	6894	6957	7020	7084		1—6
82	7147	7210	7273	7336	7399	7462	7525	7588	7651	7715		2—12
83	7778	7841	7904	7967	8030	8093	8156	8219	8282	8345		3—19
84	8409	8472	8535	8598	8661	8724	8787	8850	8913	8976		4—25
85	9039	9102	9166	9229	9292	9355	9418	9481	9544	9607		5—31
86	9670	9733	9796	9859	9922	9985	0049	0112	0175	0238		6—37
87	838	0301	0364	0427	0490	0553	0616	0679	0742	0805	0868	
88	0931	0994	1057	1120	1184	1247	1310	1373	1436	1499		7—43
89	1562	1625	1688	1751	1814	1877	1940	2003	2066	2129		8—50
6890	2192	2255	2318	2381	2444	2507	2570	2633	2696	2759		9—56
91	2822	2885	2948	3012	3075	3138	3201	3264	3327	3390		
92	3453	3516	3579	3642	3705	3768	3831	3894	3957	4020		
93	4083	4146	4209	4272	4335	4398	4461	4524	4587	4650		63
94	4713	4776	4839	4902	4965	5028	5091	5154	5217	5280		
95	5343	5406	5469	5532	5595	5658	5721	5784	5847	5910		
96	5973	6036	6099	6161	6224	6287	6350	6413	6476	6539		
97	6602	6665	6728	6791	6854	6917	6980	7043	7106	7169		
98	7232	7295	7358	7421	7484	7547	7610	7673	7736	7799		
99	7861	7924	7987	8050	8113	8176	8239	8302	8365	8428		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pro
0900	8388491	8554	8617	8680	8743	8806	8868	8931	8994	9057		
01	9120	9183	9246	9309	9372	9435	9498	9561	9624	9687		
02	9750	9812	9875	9938	0001	0064	0127	0190	0253	0316		
03	8390379	0442	0505	0567	0630	0693	0756	0819	0882	0945		
04	1008	1071	1134	1196	1259	1322	1385	1448	1511	1574		
05	1637	1700	1763	1825	1888	1951	2014	2077	2140	2203		
06	2266	2329	2391	2454	2517	2580	2643	2706	2769	2832		
07	2895	2957	3020	3083	3146	3209	3272	3335	3398	3460		
08	3523	3586	3649	3712	3775	3838	3900	3963	4026	4089		
09	4152	4215	4278	4340	4403	4466	4529	4592	4655	4718		
6910	4780	4843	4906	4969	5032	5095	5158	5220	5283	5346		63
11	5409	5472	5535	5597	5660	5723	5786	5849	5912	5974		1-6
12	6037	6100	6163	6226	6289	6351	6414	6477	6540	6603		2-13
13	6666	6728	6791	6854	6917	6980	7042	7105	7168	7231		3-19
14	7094	7357	7419	7482	7545	7608	7671	7733	7796	7859		4-25
15	7922	7985	8047	8110	8173	8236	8299	8361	8424	8487		5-31
16	8550	8613	8675	8738	8801	8864	8927	8989	9052	9115		6-38
17	9178	9240	9303	9366	9429	9492	9554	9617	9680	9743		7-44
18	9806	9868	9931	9994	0057	0119	0182	0245	0308	0370		8-50
19	8400433	0496	0559	0622	0684	0747	0810	0873	0935	0998		9-57
6920	1061	1124	1186	1249	1312	1375	1437	1500	1563	1626		
21	1688	1751	1814	1877	1939	2002	2065	2128	2190	2253		
22	2316	2379	2441	2504	2567	2630	2692	2755	2818	2881		
23	2943	3006	3069	3131	3194	3257	3320	3382	3445	3508		
24	3571	3633	3696	3759	3821	3884	3947	4010	4072	4135		
25	4198	4260	4323	4386	4449	4511	4574	4637	4699	4762		
26	4825	4888	4950	5013	5076	5138	5201	5264	5326	5389		
27	5452	5515	5577	5640	5703	5765	5828	5891	5953	6016		
28	6079	6141	6204	6267	6329	6392	6455	6518	6580	6643		
29	6706	6768	6831	6894	6956	7019	7082	7144	7207	7270		
6930	7332	7395	7458	7520	7583	7646	7708	7771	7834	7896		62
31	7959	8022	8084	8147	8210	8272	8335	8398	8460	8523		1-6
32	8586	8648	8711	8773	8836	8899	8961	9024	9087	9149		2-12
33	9212	9275	9337	9400	9463	9525	9588	9650	9713	9776		3-19
34	9838	9901	9964	0026	0089	0151	0214	0277	0339	0402		4-25
35	8410465	0527	0590	0652	0715	0778	0840	0903	0966	1028		5-31
36	1091	1153	1216	1279	1341	1404	1466	1529	1592	1654		6-37
37	1717	1780	1842	1905	1967	2030	2093	2155	2218	2280		7-43
38	2343	2406	2468	2531	2593	2656	2718	2781	2844	2906		8-50
39	2969	3031	3094	3157	3219	3282	3344	3407	3469	3532		9-56
6940	3595	3657	3720	3782	3845	3908	3970	4033	4095	4158		
41	4220	4283	4346	4408	4471	4533	4596	4658	4721	4783		
42	4846	4909	4971	5034	5096	5159	5221	5284	5346	5409		
43	5472	5534	5597	5659	5722	5784	5847	5909	5972	6035		
44	6097	6160	6222	6285	6347	6410	6472	6535	6597	6660		
45	6723	6785	6848	6910	6973	7035	7098	7160	7223	7285		
46	7348	7410	7473	7535	7598	7660	7723	7785	7848	7910		
47	7973	8035	8098	8160	8223	8286	8348	8411	8473	8536		
48	8598	8661	8723	8786	8848	8911	8973	9036	9098	9161		
49	9223	9286	9348	9411	9473	9536	9598	9661	9723	9786		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6950	8419848	9910	9973	0035	0098	0160	0223	0285	0348	0410		
51	8420473	0535	0598	0660	0723	0785	0848	0910	0973	1035		
52	1098	1160	1223	1285	1347	1410	1472	1535	1597	1660		
53	1722	1785	1847	1910	1972	2035	2097	2159	2222	2284		
54	2347	2409	2472	2534	2597	2659	2722	2784	2846	2909		
55	2971	3034	3096	3159	3221	3284	3346	3408	3471	3533		
56	3596	3658	3721	3783	3845	3908	3970	4033	4095	4158		
57	4220	4282	4345	4407	4470	4532	4595	4657	4719	4782		
58	4844	4907	4969	5031	5094	5156	5219	5281	5343	5406		
59	5468	5531	5593	5656	5718	5780	5843	5905	5968	6030		
6960	6092	6155	6217	6280	6342	6404	6467	6529	6592	6654		63
61	6716	6779	6841	6903	6966	7028	7091	7153	7215	7278		1-6
62	7340	7403	7465	7527	7590	7652	7714	7777	7839	7902		2-13
63	7964	8026	8089	8151	8213	8276	8338	8400	8463	8525		3-19
64	8588	8650	8712	8775	8837	8899	8962	9024	9086	9149		4-25
65	9211	9274	9336	9398	9461	9523	9585	9648	9710	9772		5-31
66	9835	9897	9959	0022	0084	0146	0209	0271	0333	0396		6-38
67	8430458	0520	0583	0645	0707	0770	0832	0894	0957	1019		7-44
68	1081	1144	1206	1268	1331	1393	1455	1518	1580	1642		8-50
69	1705	1767	1829	1892	1954	2016	2078	2141	2203	2265		9-57
6970	2328	2390	2452	2515	2577	2639	2702	2764	2826	2888		
71	2951	3013	3075	3138	3200	3262	3325	3387	3449	3511		
72	3574	3636	3698	3761	3823	3885	3947	4010	4072	4134		
73	4197	4259	4321	4383	4446	4508	4570	4633	4695	4757		
74	4819	4882	4944	5006	5068	5131	5193	5255	5318	5380		
75	5442	5504	5567	5629	5691	5753	5816	5878	5940	6002		
76	6065	6127	6189	6251	6314	6376	6438	6500	6563	6625		
77	6687	6749	6812	6874	6936	6998	7061	7123	7185	7247		
78	7310	7372	7434	7496	7559	7621	7683	7745	7808	7870		
79	7932	7994	8056	8119	8181	8243	8305	8368	8430	8492		
6980	8554	8616	8679	8741	8803	8865	8927	8990	9052	9114		62
81	9176	9239	9301	9363	9425	9487	9550	9612	9674	9736		1-6
82	9798	9861	9923	9985	0047	0109	0172	0234	0296	0358		2-12
83	8440420	0483	0545	0607	0669	0731	0794	0856	0918	0980		3-19
84	1042	1104	1167	1229	1291	1353	1415	1478	1540	1602		4-25
85	1664	1726	1788	1851	1913	1975	2037	2099	2161	2224		5-31
86	2286	2348	2410	2472	2534	2597	2659	2721	2783	2845		6-37
87	2907	2970	3032	3094	3156	3218	3280	3342	3405	3467		7-43
88	3529	3591	3653	3715	3778	3840	3902	3964	4026	4088		8-50
89	4150	4212	4275	4337	4399	4461	4523	4585	4647	4710		9-56
6990	4772	4834	4896	4958	5020	5082	5144	5207	5269	5331		
91	5393	5455	5517	5579	5641	5704	5766	5828	5890	5952		
92	6014	6076	6138	6200	6263	6325	6387	6449	6511	6573		
93	6635	6697	6759	6822	6884	6946	7008	7070	7132	7194		
94	7256	7318	7380	7443	7505	7567	7629	7691	7753	7815		
95	7877	7939	8001	8063	8125	8188	8250	8312	8374	8436		
96	8498	8560	8622	8684	8746	8808	8870	8932	8995	9057		
97	9119	9181	9243	9305	9367	9429	9491	9553	9615	9677		
98	9739	9801	9863	9926	9988	0050	0112	0174	0236	0298		
99	8450360	0422	0484	0546	0608	0670	0732	0794	0856	0918		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

# N. 70000 L.845

Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.
7000	8450980	1042	1104	1166	1229	1291	1353	1415	1477	1539		
01	1601	1663	1725	1787	1849	1911	1973	2035	2097	2159		
02	2221	2283	2345	2407	2469	2531	2593	2655	2717	2779		
03	2841	2903	2965	3027	3089	3151	3213	3275	3337	3399		
04	3461	3523	3585	3647	3709	3771	3833	3895	3957	4019	62	
05	4081	4143	4205	4267	4329	4391	4453	4515	4577	4639		
06	4701	4763	4825	4887	4949	5011	5073	5135	5197	5259		
07	5321	5383	5445	5507	5569	5631	5693	5755	5817	5879		
08	5941	6003	6065	6127	6189	6251	6313	6375	6437	6499		
09	6561	6623	6684	6746	6808	6870	6932	6994	7056	7118		
7010	7180	7242	7304	7366	7428	7490	7552	7614	7676	7738	62	
11	7800	7862	7924	7985	8047	8109	8171	8233	8295	8357	1-6	
12	8410	8471	8533	8595	8657	8729	8791	8853	8914	8976	2-12	
13	9038	9100	9162	9224	9286	9348	9410	9472	9534	9596	3-19	
14	9658	9719	9781	9843	9905	9967	0029	0091	0153	0215	4-25	
15	8460277	0339	0401	0462	0524	0586	0648	0710	0772	0834	5-31	
16	0896	0958	1020	1081	1143	1205	1267	1329	1391	1453	6-37	
17	1515	1577	1638	1700	1762	1824	1886	1948	2010	2072	7-43	
18	2134	2195	2257	2319	2381	2443	2505	2567	2629	2690	8-50	
19	2752	2814	2876	2938	3000	3062	3124	3185	3247	3309	9-56	
7020	3371	3433	3495	3557	3619	3680	3742	3804	3866	3928		
21	3990	4052	4113	4175	4237	4299	4361	4423	4485	4546		
22	4608	4670	4732	4794	4856	4917	4979	5041	5103	5165		
23	5227	5288	5350	5412	5474	5536	5598	5659	5721	5783		
24	5845	5907	5969	6030	6092	6154	6216	6278	6340	6401		
25	6463	6525	6587	6649	6711	6772	6834	6896	6958	7020		
26	7081	7143	7205	7267	7329	7390	7452	7514	7576	7638		
27	7700	7761	7823	7885	7947	8008	8070	8132	8194	8256		
28	8318	8379	8441	8503	8565	8626	8688	8750	8812	8874		
29	8935	8997	9059	9121	9183	9244	9306	9368	9430	9491		
7030	9553	9615	9677	9739	9800	9862	9924	9986	0047	0109	61	
31	8470171	0233	0294	0356	0418	0480	0542	0603	0665	0727	1-6	
32	0789	0850	0912	0974	1036	1097	1159	1221	1283	1344	2-12	
33	1406	1468	1530	1591	1653	1715	1777	1838	1900	1962	3-18	
34	2024	2085	2147	2209	2271	2332	2394	2456	2517	2579	4-24	
35	2641	2703	2764	2826	2888	2950	3011	3073	3135	3197	5-30	
36	3258	3320	3382	3443	3505	3567	3629	3690	3752	3814	6-37	
37	3876	3937	3999	4061	4122	4184	4246	4307	4369	4431	7-43	
38	4493	4554	4616	4678	4739	4801	4863	4925	4986	5048	8-49	
39	5110	5171	5233	5295	5356	5418	5480	5541	5603	5665	9-55	
7040	5727	5788	5850	5912	5973	6035	6097	6158	6220	6282		
41	6343	6405	6467	6528	6590	6652	6713	6775	6837	6899		
42	6900	7022	7084	7145	7207	7269	7330	7392	7454	7515		
43	7577	7638	7700	7762	7823	7885	7947	8008	8070	8132		
44	8193	8255	8317	8378	8440	8502	8563	8625	8687	8748		
45	8810	8872	8933	8995	9057	9118	9180	9241	9303	9365		
46	9426	9488	9550	9611	9673	9735	9796	9858	9919	9981		
47	8480043	0104	0166	0228	0289	0351	0412	0474	0536	0597		
48	0659	0721	0782	0844	0905	0967	1029	1090	1152	1213		
49	1275	1337	1398	1460	1521	1583	1645	1706	1768	1830		
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 70500 L.848

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7050	848	1891	1953	2014	2076	2138	2199	2261	2322	2384	2446	
51	2507	2569	2630	2692	2754	2815	2877	2938	3000	3061		
52	3123	3185	3246	3308	3369	3431	3493	3554	3616	3677		
53	3739	3800	3862	3924	3985	4047	4108	4170	4231	4293		
54	4355	4416	4478	4539	4601	4662	4724	4786	4847	4909		
55	4970	5032	5093	5155	5216	5278	5340	5401	5463	5524		
56	5586	5647	5709	5770	5832	5893	5955	6017	6078	6140		
57	6201	6263	6324	6386	6447	6509	6570	6632	6693	6755		
58	6817	6878	6940	7001	7063	7124	7186	7247	7309	7370		
59	7432	7493	7555	7616	7678	7739	7801	7862	7924	7985		
7060	8047	8109	8170	8232	8293	8355	8416	8478	8539	8601	62	
61	8662	8724	8785	8847	8908	8970	9031	9093	9154	9216	1-6	
62	9277	9339	9400	9462	9523	9585	9646	9708	9769	9831	2-12	
63	9892	9954	0015	0076	0138	0199	0261	0322	0384	0445	3-19	
64	849	0507	0568	0630	0691	0753	0814	0876	0937	0999	4-25	
65	1122	1183	1245	1306	1368	1429	1490	1552	1613	1675	5-31	
66	1736	1798	1859	1921	1982	2044	2105	2167	2228	2289	6-37	
67	2351	2412	2474	2535	2597	2658	2720	2781	2843	2904	7-43	
68	2965	3027	3088	3150	3211	3273	3334	3396	3457	3518	8-50	
69	3580	3641	3703	3764	3826	3887	3948	4010	4071	4133	9-56	
7070	4194	4256	4317	4378	4440	4501	4563	4624	4686	4747		
71	4808	4870	4931	4993	5054	5115	5177	5238	5300	5361		
72	5423	5484	5545	5607	5668	5730	5791	5852	5914	5975		
73	6037	6098	6159	6221	6282	6344	6405	6466	6528	6589		
74	6651	6712	6773	6835	6896	6958	7019	7080	7142	7203		
75	7264	7326	7387	7449	7510	7571	7633	7694	7755	7817		
76	7878	7940	8001	8062	8124	8185	8246	8308	8369	8431		
77	8492	8553	8615	8676	8737	8799	8860	8922	8983	9044		
78	9106	9167	9228	9290	9351	9412	9474	9535	9596	9658		
79	9719	9780	9842	9903	9965	0026	0087	0149	0210	0271		
7080	850	0333	0394	0455	0517	0578	0639	0701	0762	0823	61	
81	0946	1007	1069	1130	1191	1253	1314	1375	1437	1498	1-6	
82	1559	1621	1682	1743	1805	1866	1927	1988	2050	2111	2-12	
83	2172	2234	2295	2356	2418	2479	2540	2602	2663	2724	3-18	
84	2786	2847	2908	2969	3031	3092	3153	3215	3276	3337	4-24	
85	3399	3460	3521	3582	3644	3705	3766	3828	3889	3950	5-30	
86	4011	4073	4134	4195	4257	4318	4379	4440	4502	4563	6-37	
87	4624	4686	4747	4808	4869	4931	4992	5053	5115	5176	7-43	
88	5237	5298	5360	5421	5482	5543	5605	5666	5727	5788	8-49	
89	5850	5911	5972	6034	6095	6156	6217	6279	6340	6401	9-55	
7090	6462	6524	6585	6646	6707	6769	6830	6891	6952	7014		
91	7075	7136	7197	7259	7320	7381	7442	7504	7565	7626		
92	7687	7749	7810	7871	7932	7993	8055	8116	8177	8238		
93	8300	8361	8422	8483	8545	8606	8667	8728	8789	8851		
94	8912	8973	9034	9095	9157	9218	9279	9340	9402	9463		
95	9524	9585	9646	9708	9769	9830	9891	9952	0014	0075		
96	851	0136	0197	0258	0320	0381	0442	0503	0564	0626		
97	0748	0809	0870	0932	0993	1054	1115	1176	1238	1299		
98	1360	1421	1482	1544	1605	1666	1727	1788	1849	1911		
99	1972	2033	2094	2155	2216	2278	2339	2400	2461	2522		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Nam	0	1	2	3	4	5	6	7	8	9	D	Pts.
7100	851	2583	2645	2706	2767	2828	2889	2950	3012	3073	3134	
01		3195	3256	3317	3379	3440	3501	3562	3623	3684	3746	
02		3807	3868	3929	3990	4051	4112	4174	4235	4296	4357	
03		4418	4479	4540	4602	4663	4724	4785	4846	4907	4968	
04		5030	5091	5152	5213	5274	5335	5396	5457	5519	5580	
05		5641	5702	5763	5824	5885	5946	6008	6069	6130	6191	
06		6252	6313	6374	6435	6496	6558	6619	6680	6741	6802	
07		6863	6924	6985	7046	7108	7169	7230	7291	7352	7413	
08		7474	7535	7596	7657	7719	7780	7841	7902	7963	8024	
09		8085	8146	8207	8268	8329	8391	8452	8513	8574	8635	
7110		8696	8757	8818	8879	8940	9001	9062	9124	9185	9246	62
11		9307	9368	9429	9490	9551	9612	9673	9734	9795	9856	1-6
12		9917	9979	0040	0101	0162	0223	0284	0345	0406	0467	2-12
13	852	0528	0589	0650	0711	0772	0833	0894	0955	1017	1078	3-19
14		1139	1200	1261	1322	1383	1444	1505	1566	1627	1688	4-25
15		1749	1810	1871	1932	1993	2054	2115	2176	2237	2298	5-31
16		2359	2420	2481	2542	2604	2665	2726	2787	2848	2909	6-37
17		2970	3031	3092	3153	3214	3275	3336	3397	3458	3519	7-43
18		3580	3641	3702	3763	3824	3885	3946	4007	4068	4129	8-50
19		4190	4251	4312	4373	4434	4495	4556	4617	4678	4739	9-56
7120		4800	4861	4922	4983	5044	5105	5166	5227	5288	5349	61
21		5410	5471	5532	5593	5654	5715	5776	5837	5898	5959	
22		6020	6081	6142	6203	6264	6325	6386	6447	6507	6568	
23		6629	6690	6751	6812	6873	6934	6995	7056	7117	7178	
24		7239	7300	7361	7422	7483	7544	7605	7666	7727	7788	
25		7849	7910	7971	8032	8092	8153	8214	8275	8336	8397	
26		8458	8519	8580	8641	8702	8763	8824	8885	8946	9007	
27		9068	9129	9189	9250	9311	9372	9433	9494	9555	9616	
28		9677	9738	9799	9860	9921	9982	0042	0103	0164	0225	
29	853	0286	0347	0408	0469	0530	0591	0652	0713	0773	0834	
7130		0895	0956	1017	1078	1139	1200	1261	1322	1383	1443	61
31		1504	1565	1626	1687	1748	1809	1870	1931	1992	2052	1-6
32		2113	2174	2235	2296	2357	2418	2479	2540	2600	2661	2-12
33		2722	2783	2844	2905	2966	3027	3088	3148	3209	3270	3-18
34		3331	3392	3453	3514	3575	3635	3696	3757	3818	3879	4-24
35		3940	4001	4062	4122	4183	4244	4305	4366	4427	4488	5-30
36		4548	4609	4670	4731	4792	4853	4914	4975	5035	5096	6-37
37		5157	5218	5279	5340	5400	5461	5522	5583	5644	5705	7-43
38		5765	5826	5887	5948	6009	6070	6130	6191	6252	6313	8-49
39		6374	6435	6495	6556	6617	6678	6739	6800	6860	6921	9-55
7140		6982	7043	7104	7165	7225	7286	7347	7408	7469	7530	
41		7590	7651	7712	7773	7834	7894	7955	8016	8077	8138	
42		8198	8259	8320	8381	8442	8502	8563	8624	8685	8746	
43		8807	8867	8928	8989	9050	9110	9171	9232	9293	9354	
44		9414	9475	9536	9597	9658	9718	9779	9840	9901	9962	
45	854	0022	0083	0144	0205	0265	0326	0387	0448	0509	0569	
46		0630	0691	0752	0812	0873	0934	0995	1056	1116	1177	
47		1238	1299	1359	1420	1481	1542	1602	1663	1724	1785	
48		1845	1906	1967	2028	2088	2149	2210	2271	2331	2392	
49		2453	2514	2574	2635	2696	2757	2817	2878	2939	3000	
Nam	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 71500 L.854

Numer	0	1	2	3	4	5	6	7	8	9	D	Pts
7150	8543000	3121	3182	3243	3303	3364	3425	3486	3546	3607		
51	3668	3729	3789	3850	3911	3971	4032	4093	4154	4214		
52	4275	4336	4397	4457	4518	4579	4639	4700	4761	4822		
53	4882	4943	5004	5064	5125	5186	5247	5307	5368	5429		
54	5489	5550	5611	5671	5732	5793	5854	5914	5975	6036		
55	6096	6157	6218	6278	6339	6400	6461	6521	6582	6643		
56	6703	6764	6825	6885	6946	7007	7067	7128	7189	7249		
57	7310	7371	7432	7492	7553	7614	7674	7735	7796	7856		
58	7917	7978	8038	8099	8160	8220	8281	8342	8402	8463		
59	8524	8584	8645	8706	8766	8827	8888	8948	9009	9070		
7160	9130	9191	9252	9312	9373	9433	9494	9555	9615	9676		61
61	9737	9797	9858	9919	9979	0040	0101	0161	0222	0283		1-6
62	8550343	0404	0464	0525	0586	0646	0707	0768	0828	0889		2-12
63	0950	1010	1071	1131	1192	1253	1313	1374	1435	1495		3-18
64	1556	1616	1677	1738	1798	1859	1919	1980	2041	2101		4-24
65	2162	2223	2283	2344	2404	2465	2526	2586	2647	2707		5-30
66	2768	2829	2889	2950	3010	3071	3132	3192	3253	3313		6-37
67	3374	3435	3495	3556	3616	3677	3738	3798	3859	3919		7-43
68	3980	4041	4101	4162	4222	4283	4343	4404	4465	4525		8-49
69	4586	4646	4707	4768	4828	4889	4949	5010	5070	5131		9-55
7170	5192	5252	5313	5373	5434	5494	5555	5616	5676	5737		
71	5797	5858	5918	5979	6039	6100	6161	6221	6282	6342		
72	6403	6463	6524	6584	6645	6706	6766	6827	6887	6948		
73	7008	7069	7129	7190	7250	7311	7372	7432	7493	7553		
74	7614	7674	7735	7795	7856	7916	7977	8037	8098	8159		
75	8219	8280	8340	8401	8461	8522	8582	8643	8703	8764		
76	8824	8885	8945	9006	9066	9127	9187	9248	9308	9369		
77	9429	9490	9550	9611	9672	9732	9793	9853	9914	9974		
78	8560035	0095	0156	0216	0277	0337	0398	0458	0519	0579		
79	0640	0700	0761	0821	0882	0942	1002	1063	1123	1184		
7180	1244	1305	1365	1426	1486	1547	1607	1668	1728	1789		60
81	1849	1910	1970	2031	2091	2152	2212	2273	2333	2394		1-6
82	2454	2514	2575	2635	2696	2756	2817	2877	2938	2998		2-12
83	3059	3119	3180	3240	3301	3361	3421	3482	3542	3603		3-18
84	3663	3724	3784	3845	3905	3965	4026	4086	4147	4207		4-24
85	4268	4328	4389	4449	4509	4570	4630	4691	4751	4812		5-30
86	4872	4933	4993	5053	5114	5174	5235	5295	5356	5416		6-36
87	5476	5537	5597	5658	5718	5779	5839	5899	5960	6020		7-42
88	6081	6141	6202	6262	6322	6383	6443	6504	6564	6624		8-48
89	6685	6745	6806	6866	6926	6987	7047	7108	7168	7229		9-54
7190	7289	7349	7410	7470	7531	7591	7651	7712	7772	7832		
91	7893	7953	8014	8074	8134	8195	8255	8316	8376	8436		
92	8497	8557	8618	8678	8738	8799	8859	8919	8980	9040		
93	9101	9161	9221	9282	9342	9402	9463	9523	9584	9644		
94	9704	9765	9825	9885	9946	0006	0067	0127	0187	0248		
95	8570308	0368	0429	0489	0549	0610	0670	0730	0791	0851		
96	0912	0972	1032	1093	1153	1213	1274	1334	1394	1455		
97	1515	1575	1636	1696	1756	1817	1877	1937	1998	2058		
98	2118	2179	2239	2299	2360	2420	2480	2541	2601	2661		
99	2722	2782	2842	2903	2963	3023	3084	3144	3204	3265		
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7200	857	3325	3385	3446	3506	3566	3627	3687	3747	3807	3868	
01		3928	3988	4049	4109	4169	4230	4290	4350	4411	4471	
02		4531	4591	4652	4712	4772	4833	4893	4953	5014	5074	
03		5134	5194	5255	5315	5375	5436	5496	5556	5616	5677	
04		5737	5797	5858	5918	5978	6038	6099	6159	6219	6280	
05		6340	6400	6460	6521	6581	6641	6701	6762	6822	6882	
06		6943	7003	7063	7123	7184	7244	7304	7364	7425	7485	
07		7545	7605	7666	7726	7786	7847	7907	7967	8027	8088	
08		8148	8208	8268	8329	8389	8449	8509	8570	8630	8690	
09		8750	8810	8871	8931	8991	9051	9112	9172	9232	9292	
7210		9353	9413	9473	9533	9594	9654	9714	9774	9835	9895	61
11		9955	0015	0075	0136	0196	0256	0316	0377	0437	0497	1—6
12	858	0557	0617	0678	0738	0798	0858	0918	0979	1039	1099	2—12
13		1159	1220	1280	1340	1400	1460	1521	1581	1641	1701	3—18
14		1761	1822	1882	1942	2002	2062	2123	2183	2243	2303	4—24
15		2363	2424	2484	2544	2604	2664	2724	2785	2845	2905	5—30
16		2965	3025	3086	3146	3206	3266	3326	3387	3447	3507	6—37
17		3567	3627	3687	3748	3808	3868	3928	3988	4048	4109	7—43
18		4169	4229	4289	4349	4409	4470	4530	4590	4650	4710	8—49
19		4770	4831	4891	4951	5011	5071	5131	5192	5252	5312	9—55
7220		5372	5432	5492	5552	5613	5673	5733	5793	5853	5913	
21		5973	6034	6094	6154	6214	6274	6334	6394	6455	6515	
22		6575	6635	6695	6755	6815	6876	6936	6996	7056	7116	
23		7176	7236	7296	7357	7417	7477	7537	7597	7657	7717	
24		7777	7837	7898	7958	8018	8078	8138	8198	8258	8318	
25		8379	8439	8499	8559	8619	8679	8739	8799	8859	8919	
26		8980	9040	9100	9160	9220	9280	9340	9400	9460	9520	
27		9581	9641	9701	9761	9821	9881	9941	0001	0061	0121	
28	859	0181	0242	0302	0362	0422	0482	0542	0602	0662	0722	
29		0782	0842	0902	0962	1023	1083	1143	1203	1263	1323	
7230		1383	1443	1503	1563	1623	1683	1743	1803	1863	1924	60
31		1984	2044	2104	2164	2224	2284	2344	2404	2464	2524	1—6
32		2584	2644	2704	2764	2824	2884	2944	3005	3065	3125	2—12
33		3185	3245	3305	3365	3425	3485	3545	3605	3665	3725	3—18
34		3785	3845	3905	3965	4025	4085	4145	4205	4265	4325	4—24
35		4385	4445	4505	4565	4625	4685	4746	4806	4866	4926	5—30
36		4986	5046	5106	5166	5226	5286	5346	5406	5466	5526	6—36
37		5586	5646	5706	5766	5826	5886	5946	6006	6066	6126	60
38		6186	6246	6306	6366	6426	6486	6546	6606	6666	6726	7—42
39		6786	6846	6906	6966	7026	7086	7146	7206	7266	7326	8—48
7240		7386	7446	7506	7566	7626	7686	7746	7806	7866	7925	
41		7985	8045	8105	8165	8225	8285	8345	8405	8465	8525	
42		8585	8645	8705	8765	8825	8885	8945	9005	9065	9125	
43		9185	9245	9305	9365	9425	9485	9545	9605	9665	9724	
44		9784	9844	9904	9964	0024	0084	0144	0204	0264	0324	
45	860	0384	0444	0504	0564	0624	0684	0744	0803	0863	0923	
46		0983	1043	1103	1163	1223	1283	1343	1403	1463	1523	
47		1583	1643	1702	1762	1822	1882	1942	2002	2062	2122	
48		2182	2242	2302	2362	2422	2481	2541	2601	2661	2721	
49		2781	2841	2901	2961	3021	3081	3140	3200	3260	3320	
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7250	8603380	3440	3500	3560	3620	3680	3739	3799	3859	3919		
51	3979	4039	4099	4159	4219	4279	4338	4398	4458	4518		
52	4578	4638	4698	4758	4817	4877	4937	4997	5057	5117		
53	5177	5237	5297	5356	5416	5476	5536	5596	5656	5716		
54	5776	5835	5895	5955	6015	6075	6135	6195	6254	6314		
55	6374	6434	6494	6554	6614	6673	6733	6793	6853	6913		
56	6973	7033	7092	7152	7212	7272	7332	7392	7452	7511		
57	7571	7631	7691	7751	7811	7870	7930	7990	8050	8110		
58	8170	8229	8289	8349	8409	8469	8529	8588	8648	8708		
59	8768	8828	8888	8947	9007	9067	9127	9187	9247	9306		
7260	9366	9426	9486	9546	9605	9665	9725	9785	9845	9905		60
61	9964	0024	0084	0144	0204	0263	0323	0383	0443	0503		1-6
62	8610562	0622	0682	0742	0802	0861	0921	0981	1041	1101		2-12
63	1160	1220	1280	1340	1400	1459	1519	1579	1639	1699		3-18
64	1758	1818	1878	1938	1997	2057	2117	2177	2237	2296		4-24
65	2356	2416	2476	2536	2595	2655	2715	2775	2834	2894		5-30
66	2954	3014	3073	3133	3193	3253	3313	3372	3432	3492		6-36
67	3552	3611	3671	3731	3791	3850	3910	3970	4030	4089		7-42
68	4149	4209	4269	4328	4388	4448	4508	4567	4627	4687		8-48
69	4747	4806	4866	4926	4986	5045	5105	5165	5225	5284		9-54
7270	5344	5404	5464	5523	5583	5643	5703	5762	5822	5882		
71	5941	6001	6061	6121	6180	6240	6300	6359	6419	6479		
72	6539	6598	6658	6718	6778	6837	6897	6957	7016	7076		
73	7136	7196	7255	7315	7375	7434	7494	7554	7614	7673		
74	7733	7793	7852	7912	7972	8031	8091	8151	8211	8270		
75	8330	8390	8449	8509	8569	8628	8688	8748	8808	8867		
76	8927	8987	9046	9106	9166	9225	9285	9345	9404	9464		
77	9524	9583	9643	9703	9762	9822	9882	9941	0001	0061		
78	8620121	0180	0240	0300	0359	0419	0479	0538	0598	0658		
79	0717	0777	0837	0896	0956	1016	1075	1135	1194	1254		
7280	1314	1373	1433	1493	1552	1612	1672	1731	1791	1851		59
81	1910	1970	2030	2089	2149	2209	2268	2328	2387	2447		1-6
82	2507	2566	2626	2686	2745	2805	2865	2924	2984	3043		2-12
83	3103	3163	3222	3282	3342	3401	3461	3520	3580	3640		3-18
84	3699	3759	3819	3878	3938	3997	4057	4117	4176	4236		4-24
85	4296	4355	4415	4474	4534	4594	4653	4713	4772	4832		5-29
86	4892	4951	5011	5070	5130	5190	5249	5309	5368	5428		6-35
87	5488	5547	5607	5666	5726	5786	5845	5905	5964	6024		7-41
88	6084	6143	6203	6262	6322	6382	6441	6501	6560	6620		8-47
89	6680	6739	6799	6858	6918	6977	7037	7097	7156	7216		9-5
7290	7275	7335	7394	7454	7514	7573	7633	7692	7752	7811		
91	7871	7930	7990	8050	8109	8169	8228	8288	8347	8407		
92	8467	8526	8586	8645	8705	8764	8824	8883	8943	9003		
93	9062	9122	9181	9241	9300	9360	9419	9479	9539	9598		
94	9658	9717	9777	9836	9896	9955	0015	0074	0134	0193		
95	8630253	0312	0372	0432	0491	0551	0610	0670	0729	0789		
96	0848	0908	0967	1027	1086	1146	1205	1265	1324	1384		
97	1443	1503	1562	1622	1682	1741	1801	1860	1920	1979		
98	2039	2098	2158	2217	2277	2336	2396	2455	2515	2574		
99	2634	2693	2753	2812	2872	2931	2991	3050	3110	3169		
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7300	863	3229	3288	3348	3407	3467	3526	3586	3645	3705	3764	
01		3823	3883	3942	4002	4061	4121	4180	4240	4299	4359	
02		4418	4478	4537	4597	4656	4716	4775	4835	4894	4954	
03		5013	5072	5132	5191	5251	5310	5370	5429	5489	5548	
04		5608	5667	5727	5786	5845	5905	5964	6024	6083	6143	
05		6202	6262	6321	6381	6440	6499	6559	6618	6678	6737	
06		6797	6856	6916	6975	7034	7094	7153	7213	7272	7332	
07		7391	7451	7510	7569	7629	7688	7748	7807	7867	7926	
08		7985	8045	8104	8164	8223	8283	8342	8401	8461	8520	
09		8580	8639	8698	8758	8817	8877	8936	8996	9055	9114	
7310		9174	9233	9293	9352	9411	9471	9530	9590	9649	9708	60
11		9768	9827	9887	9946	0005	0065	0124	0184	0243	0302	1—6
12	864	0362	0421	0481	0540	0599	0659	0718	0778	0837	0896	2—12
13		0956	1015	1075	1134	1193	1253	1312	1371	1431	1490	3—18
14		1550	1609	1668	1728	1787	1846	1906	1965	2025	2084	4—24
15		2143	2203	2262	2321	2381	2440	2500	2559	2618	2678	5—30
16		2737	2796	2856	2915	2974	3034	3093	3152	3212	3271	6—36
17		3331	3390	3449	3509	3568	3627	3687	3746	3805	3865	7—42
18		3924	3983	4043	4102	4161	4221	4280	4339	4399	4458	8—48
19		4517	4577	4636	4695	4755	4814	4873	4933	4992	5051	9—54
7320		5111	5170	5229	5289	5348	5407	5467	5526	5585	5645	
21		5704	5763	5823	5882	5941	6001	6060	6119	6179	6238	
22		6297	6357	6416	6475	6534	6594	6653	6712	6772	6831	
23		6890	6950	7009	7068	7128	7187	7246	7305	7365	7424	
24		7483	7543	7602	7661	7721	7780	7839	7898	7958	8017	
25		8076	8136	8195	8254	8313	8373	8432	8491	8551	8610	
26		8669	8728	8788	8847	8906	8966	9025	9084	9143	9203	
27		9262	9321	9380	9440	9499	9558	9618	9677	9736	9795	
28		9855	9914	9973	0032	0092	0151	0210	0269	0329	0388	
29	865	0447	0506	0566	0625	0684	0743	0803	0862	0921	0980	
7330		1040	1099	1158	1217	1277	1336	1395	1454	1514	1573	59
31		1632	1691	1751	1810	1869	1928	1988	2047	2106	2165	1—6
32		2225	2284	2343	2402	2461	2521	2580	2639	2698	2758	2—12
33		2817	2876	2935	2995	3054	3113	3172	3231	3291	3350	3—18
34		3409	3468	3527	3587	3646	3705	3764	3824	3883	3942	4—24
35		4001	4060	4120	4179	4238	4297	4356	4416	4475	4534	5—29
36		4593	4652	4712	4771	4830	4889	4948	5008	5067	5126	6—35
37		5185	5244	5304	5363	5422	5481	5540	5600	5659	5718	7—41
38		5777	5836	5895	5955	6014	6073	6132	6191	6251	6310	8—47
39		6369	6428	6487	6546	6606	6665	6724	6783	6842	6901	9—53
7340		6961	7020	7079	7138	7197	7256	7316	7375	7434	7493	
41		7552	7611	7671	7730	7789	7848	7907	7966	8025	8085	
42		8144	8203	8262	8321	8380	8440	8499	8558	8617	8676	
43		8735	8794	8853	8913	8972	9031	9090	9149	9208	9268	
44		9327	9386	9445	9504	9563	9622	9681	9741	9800	9859	
45		9918	9977	0036	0095	0155	0214	0273	0332	0391	0450	
46	866	0509	0568	0627	0687	0746	0805	0864	0923	0982	1041	
47		1100	1160	1219	1278	1337	1396	1455	1514	1573	1632	
48		1691	1751	1810	1869	1928	1987	2046	2105	2164	2223	
49		2282	2342	2401	2460	2519	2578	2637	2696	2755	2814	
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# N. 73500 L.866

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7350	866	2873	2932	2992	3051	3110	3169	3228	3287	3346	3405	
51	3464	3523	3582	3641	3701	3760	3819	3878	3937	3996		
52	4055	4114	4173	4232	4291	4350	4409	4468	4528	4587		
53	4646	4705	4764	4823	4882	4941	5000	5059	5118	5177		
54	5236	5295	5354	5413	5472	5532	5591	5650	5709	5768		
55	5827	5886	5945	6004	6063	6122	6181	6240	6299	6358		
56	6417	6476	6535	6594	6653	6712	6771	6830	6889	6949		
57	7008	7067	7126	7185	7244	7303	7362	7421	7480	7539		
58	7598	7657	7716	7775	7834	7893	7952	8011	8070	8129		
59	8188	8247	8306	8365	8424	8483	8542	8601	8660	8719		
7360	8778	8837	8896	8955	9014	9073	9132	9191	9250	9309	59	59
61	9368	9427	9486	9545	9604	9663	9722	9781	9840	9899		1-6
62	9958	0017	0076	0135	0194	0253	0312	0371	0430	0489		2-12
63	867	0548	0607	0666	0725	0784	0843	0902	0961	1020		3-18
64	1138	1197	1256	1315	1374	1433	1492	1551	1610	1669		4-24
65	1728	1786	1845	1904	1963	2022	2081	2140	2199	2258		5-29
66	2317	2376	2435	2494	2553	2612	2671	2730	2789	2848		6-35
67	2907	2966	3025	3084	3142	3201	3260	3319	3378	3437		7-41
68	3496	3555	3614	3673	3732	3791	3850	3909	3968	4027		8-47
69	4086	4144	4203	4262	4321	4380	4439	4498	4557	4616		9-53
7370	4675	4734	4793	4852	4911	4970	5028	5087	5146	5205		
71	5264	5323	5382	5441	5500	5559	5618	5677	5735	5794		
72	5853	5912	5971	6030	6089	6148	6207	6266	6325	6383		
73	6442	6501	6560	6619	6678	6737	6796	6855	6914	6972		
74	7031	7090	7149	7208	7267	7326	7385	7444	7502	7561		
75	7620	7679	7738	7797	7856	7915	7974	8032	8091	8150		
76	8209	8268	8327	8386	8445	8503	8562	8621	8680	8739		
77	8798	8857	8916	8974	9033	9092	9151	9210	9269	9328		
78	9387	9445	9504	9563	9622	9681	9740	9799	9857	9916		
79	9975	0034	0093	0152	0211	0269	0328	0387	0446	0505		
7380	868	0564	0622	0681	0740	0799	0858	0917	0976	1034	58	58
81	1152	1211	1270	1329	1387	1446	1505	1564	1623	1682		1-6
82	1740	1799	1858	1917	1976	2035	2093	2152	2211	2270		2-12
83	2329	2388	2446	2505	2564	2623	2682	2740	2799	2858		3-17
84	2917	2976	3035	3093	3152	3211	3270	3329	3387	3446		4-23
85	3505	3564	3623	3681	3740	3799	3858	3917	3975	4034		5-29
86	4093	4152	4211	4269	4328	4387	4446	4505	4563	4622		6-35
87	4681	4740	4799	4857	4916	4975	5034	5093	5151	5210		7-41
88	5269	5328	5386	5445	5504	5563	5622	5680	5739	5798		8-46
89	5857	5915	5974	6033	6092	6151	6209	6268	6327	6386		9-52
7390	6444	6503	6562	6621	6679	6738	6797	6856	6915	6973		
91	7032	7091	7150	7208	7267	7326	7385	7443	7502	7561		
92	7620	7678	7737	7796	7855	7913	7972	8031	8090	8148		
93	8207	8266	8325	8383	8442	8501	8560	8618	8677	8736		
94	8794	8853	8912	8971	9029	9088	9147	9206	9264	9323		
95	9382	9441	9499	9558	9617	9675	9734	9793	9852	9910		
96	9969	0028	0086	0145	0204	0263	0321	0380	0439	0497		
97	369	0556	0615	0674	0732	0791	0850	0908	0967	1026		
98	1143	1202	1261	1319	1378	1437	1495	1554	1613	1672		
99	1730	1789	1848	1906	1965	2024	2082	2141	2200	2259		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N.74000 L.869

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7400	869	2317	2376	2435	2493	2552	2611	2669	2728	2787	2845	
01	2904	2963	3021	3080	3139	3197	3256	3315	3373	3432		
02	3491	3549	3608	3667	3725	3784	3843	3901	3960	4019		
03	4077	4136	4195	4253	4312	4371	4429	4488	4547	4605		
04	4664	4723	4781	4840	4899	4957	5016	5075	5133	5192		
05	5251	5309	5368	5427	5485	5544	5603	5661	5720	5778		
06	5837	5896	5954	6013	6072	6130	6189	6248	6306	6265		
07	6423	6482	6541	6599	6658	6717	6775	6834	6892	6951		
08	7010	7068	7127	7186	7244	7303	7361	7420	7479	7537		
09	7596	7655	7713	7772	7830	7889	7948	8006	8065	8123		
7410	8182	8241	8299	8358	8417	8475	8534	8592	8651	8710		59
11	8768	8827	8885	8944	9003	9061	9120	9178	9237	9296		1-6
12	9354	9413	9471	9530	9588	9647	9706	9764	9823	9881		2-12
13	9940	9999	0057	0116	0174	0233	0291	0350	0409	0467		3-18
14	8700	0526	0584	0643	0702	0760	0819	0877	0936	0994		4-24
15	1112	1170	1229	1287	1346	1404	1463	1522	1580	1639		5-29
16	1697	1756	1814	1873	1931	1990	2049	2107	2166	2224		6-35
17	2283	2341	2400	2458	2517	2576	2634	2693	2751	2810		7-41
18	2868	2927	2985	3044	3102	3161	3220	3278	3337	3395		8-47
19	3454	3512	3571	3629	3688	3746	3805	3863	3922	3981		9-53
7420	4039	4098	4156	4215	4273	4332	4390	4449	4507	4566		
21	4624	4683	4741	4800	4858	4917	4975	5034	5092	5151		
22	5210	5268	5327	5385	5444	5502	5561	5619	5678	5736		
23	5794	5853	5912	5970	6029	6087	6146	6204	6263	6321		
24	6380	6438	6497	6555	6614	6672	6731	6789	6848	6906		
25	6965	7023	7082	7140	7199	7257	7316	7374	7432	7491		
26	7549	7608	7666	7725	7783	7842	7900	7959	8017	8076		
27	8134	8193	8251	8310	8368	8427	8485	8544	8602	8660		
28	8719	8777	8836	8894	8953	9011	9070	9128	9187	9245		
29	9304	9362	9421	9479	9537	9596	9654	9713	9771	9830		
7430	9888	9947	0005	0063	0122	0180	0239	0297	0356	0414		58
31	8710	0473	0531	0589	0648	0706	0765	0823	0882	0940		1-6
32	1057	1115	1174	1232	1291	1349	1408	1466	1524	1583		2-12
33	1641	1700	1758	1817	1875	1933	1992	2050	2109	2167		3-17
34	2226	2284	2342	2401	2459	2518	2576	2634	2693	2751		4-23
35	2810	2868	2927	2985	3043	3102	3160	3219	3277	3335		5-29
36	3394	3452	3511	3569	3627	3686	3744	3803	3861	3919		6-35
37	3978	4036	4095	4153	4211	4270	4328	4387	4445	4503		7-41
38	4562	4620	4679	4737	4795	4854	4912	4970	5029	5087		8-46
39	5146	5204	5262	5321	5379	5437	5496	5554	5613	5671		9-52
7440	5729	5788	5846	5904	5963	6021	6080	6138	6196	6255		
41	6313	6371	6430	6488	6546	6605	6663	6722	6780	6838		
42	6897	6955	7013	7072	7130	7188	7247	7305	7363	7422		
43	7480	7539	7597	7655	7714	7772	7830	7889	7947	8005		
44	8064	8122	8180	8239	8297	8355	8414	8472	8530	8589		
45	8647	8705	8764	8822	8880	8939	8997	9055	9114	9172		
46	9230	9289	9347	9405	9464	9522	9580	9639	9697	9755		
47	9814	9872	9930	9988	0047	0105	0163	0222	0280	0338		
48	8720	0397	0455	0513	0572	0630	0688	0747	0805	0863		
49	0980	1038	1096	1155	1213	1271	1330	1388	1446	1504		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 74500 L.872

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7450	872	1563	1621	1679	1738	1796	1854	1912	1971	2029	2087	
51		2146	2204	2262	2320	2379	2437	2495	2554	2612	2670	
52		2728	2787	2845	2903	2962	3020	3078	3136	3195	3253	
53		3311	3369	3428	3486	3544	3603	3661	3719	3777	3836	
54		3894	3952	4010	4069	4127	4185	4243	4302	4360	4418	
55		4476	4535	4593	4651	4709	4768	4826	4884	4942	5001	
56		5059	5117	5175	5234	5292	5350	5408	5467	5525	5583	
57		5641	5700	5758	5816	5874	5933	5991	6049	6107	6166	
58		6224	6282	6340	6398	6457	6515	6573	6631	6690	6748	
59		6806	6864	6923	6981	7039	7097	7155	7214	7272	7330	
7460		7388	7446	7505	7563	7621	7679	7738	7796	7854	7912	58
61		7970	8029	8087	8145	8203	8261	8320	8378	8436	8494	1-6
62		8552	8611	8669	8727	8785	8843	8902	8960	9018	9076	2-12
63		9134	9193	9251	9309	9367	9425	9484	9542	9600	9658	3-17
64		9716	9774	9833	9891	9949	0007	0065	0124	0182	0240	4-23
65	873	0298	0356	0414	0473	0531	0589	0647	0705	0764	0822	5-29
66		0880	0938	0996	1054	1113	1171	1229	1287	1345	1403	6-35
67		1462	1520	1578	1636	1694	1752	1810	1869	1927	1985	7-41
68		2043	2101	2159	2218	2276	2334	2392	2450	2508	2566	8-46
69		2625	2683	2741	2799	2857	2915	2973	3032	3090	3148	9-52
7470		3206	3264	3322	3380	3439	3497	3555	3613	3671	3729	
71		3787	3845	3904	3962	4020	4078	4136	4194	4252	4311	
72		4369	4427	4485	4543	4601	4659	4717	4775	4834	4892	
73		4950	5008	5066	5124	5182	5240	5298	5357	5415	5473	
74		5531	5589	5647	5705	5763	5821	5880	5938	5996	6054	
75		6112	6170	6228	6286	6344	6402	6461	6519	6577	6635	
76		6693	6751	6809	6867	6925	6983	7041	7100	7158	7216	
77		7274	7332	7390	7448	7506	7564	7622	7680	7738	7797	
78		7855	7913	7971	8029	8087	8145	8203	8261	8319	8377	
79		8435	8493	8551	8610	8668	8726	8784	8842	8900	8958	
7480		9016	9074	9132	9190	9248	9306	9364	9422	9480	9538	57
81		9597	9655	9713	9771	9829	9887	9945	0003	0061	0119	1-6
82	874	0177	0235	0293	0351	0409	0467	0525	0583	0641	0699	2-11
83		0757	0815	0874	0932	0990	1048	1106	1164	1222	1280	3-17
84		1338	1396	1454	1512	1570	1628	1686	1744	1802	1860	4-23
85		1918	1976	2034	2092	2150	2208	2266	2324	2382	2440	5-28
86		2498	2556	2614	2672	2730	2788	2846	2904	2962	3020	6-34
87		3078	3136	3194	3252	3310	3368	3426	3484	3542	3600	7-40
88		3658	3716	3774	3832	3890	3948	4006	4064	4122	4180	8-46
89		4238	4296	4354	4412	4470	4528	4586	4644	4702	4760	9-51
7490		4818	4876	4934	4992	5050	5108	5166	5224	5282	5340	
91		5398	5456	5514	5572	5630	5688	5746	5804	5862	5920	
92		5978	6036	6094	6152	6210	6268	6325	6383	6441	6499	
93		6557	6615	6673	6731	6789	6847	6905	6963	7021	7079	
94		7137	7195	7253	7311	7369	7427	7485	7543	7600	7658	
95		7716	7774	7832	7890	7948	8006	8064	8122	8180	8238	
96		8296	8354	8412	8470	8528	8585	8643	8701	8759	8817	
97		8875	8933	8991	9049	9107	9165	9223	9281	9339	9396	
98		9454	9512	9570	9628	9686	9744	9802	9860	9918	9976	
99	875	0034	0091	0149	0207	0265	0323	0381	0439	0497	0555	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
7500	875	0613	0671	0728	0786	0844	0902	0960	1018	1076	1134	
01		1192	1250	1307	1365	1423	1481	1539	1597	1655	1713	
02		1771	1828	1886	1944	2002	2060	2118	2176	2234	2292	
03		2349	2407	2465	2523	2581	2639	2697	2755	2813	2870	
04		2928	2986	3044	3102	3160	3218	3275	3333	3391	3449	
05		3507	3565	3623	3681	3738	3796	3854	3912	3970	4028	
06		4086	4143	4201	4259	4317	4375	4433	4491	4548	4606	
07		4664	4722	4780	4838	4896	4953	5011	5069	5127	5185	
08		5243	5300	5358	5416	5474	5532	5590	5648	5705	5763	
09		5821	5879	5937	5995	6052	6110	6168	6226	6284	6342	
7510		6399	6457	6515	6573	6631	6689	6746	6804	6862	6920	58
11		6978	7035	7093	7151	7209	7267	7325	7382	7440	7498	1—6
12		7556	7614	7671	7729	7787	7845	7903	7960	8018	8076	2—12
13		8134	8192	8249	8307	8365	8423	8481	8539	8596	8654	3—17
14		8712	8770	8828	8885	8943	9001	9059	9116	9174	9232	4—23
15		9290	9348	9405	9463	9521	9579	9637	9694	9752	9810	5—29
16		9868	9925	9983	0041	0099	0157	0214	0272	0330	0388	6—35
17	876	0446	0503	0561	0619	0677	0734	0792	0850	0908	0965	7—41
18		1023	1081	1139	1197	1254	1312	1370	1428	1485	1543	8—46
19		1601	1659	1716	1774	1832	1890	1947	2005	2063	2121	9—52
7520		2178	2236	2294	2352	2409	2467	2525	2583	2640	2698	
21		2756	2814	2871	2929	2987	3045	3102	3160	3218	3276	
22		3333	3391	3449	3506	3564	3622	3680	3737	3795	3853	
23		3911	3968	4026	4084	4142	4199	4257	4315	4372	4430	
24		4488	4546	4603	4661	4719	4776	4834	4892	4950	5007	
25		5065	5123	5180	5238	5296	5354	5411	5469	5527	5584	
26		5642	5700	5758	5815	5873	5931	5988	6046	6104	6161	
27		6219	6277	6335	6392	6450	6508	6565	6623	6681	6738	
28		6796	6854	6911	6969	7027	7085	7142	7200	7258	7315	
29		7373	7431	7488	7546	7604	7661	7719	7777	7834	7892	
7530		7950	8007	8065	8123	8180	8238	8296	8353	8411	8469	57
31		8526	8584	8642	8699	8757	8815	8872	8930	8988	9045	1—6
32		9103	9161	9218	9276	9334	9391	9449	9507	9564	9622	2—11
33		9680	9737	9795	9853	9910	9968	0026	0083	0141	0199	3—17
34	877	0256	0314	0371	0429	0487	0544	0602	0660	0717	0775	4—23
35		0833	0890	0948	1005	1063	1121	1178	1236	1294	1351	5—28
36		1409	1467	1524	1582	1639	1697	1755	1812	1870	1928	6—34
37		1985	2043	2100	2158	2216	2273	2331	2388	2446	2504	7—40
38		2561	2619	2677	2734	2792	2849	2907	2965	3022	3080	8—46
39		3137	3195	3253	3310	3368	3425	3483	3541	3598	3656	9—51
7540		3713	3771	3829	3886	3944	4001	4059	4117	4174	4232	
41		4289	4347	4405	4462	4520	4577	4635	4693	4750	4808	
42		4865	4923	4980	5038	5096	5153	5211	5268	5326	5384	
43		5441	5499	5556	5614	5671	5729	5787	5844	5902	5959	
44		6017	6074	6132	6189	6247	6305	6362	6420	6477	6535	
45		6592	6650	6708	6765	6823	6880	6938	6995	7053	7110	
46		7168	7226	7283	7341	7398	7456	7513	7571	7628	7686	
47		7743	7801	7859	7916	7974	8031	8089	8146	8204	8261	
48		8319	8376	8434	8492	8549	8607	8664	8722	8779	8837	
49		8894	8952	9009	9067	9124	9182	9239	9297	9354	9412	
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7530	8779470	9527	9585	9642	9700	9757	9815	9872	9930	9987		
51	8780045	0102	0160	0217	0275	0332	0390	0447	0505	0562		
52	0620	0677	0735	0792	0850	0907	0965	1022	1080	1137		
53	1195	1252	1310	1367	1425	1482	1540	1597	1655	1712		
54	1770	1827	1885	1942	2000	2057	2115	2172	2230	2287		
55	2345	2402	2460	2517	2575	2632	2690	2747	2805	2862		
56	2919	2977	3034	3092	3149	3207	3264	3322	3379	3437		
57	3494	3552	3609	3667	3724	3782	3839	3896	3954	4011		
58	4069	4126	4184	4241	4299	4356	4414	4471	4529	4586		
59	4643	4701	4758	4816	4873	4931	4988	5046	5103	5161		
7560	5218	5275	5333	5390	5448	5505	5563	5620	5678	5735		58
61	5792	5850	5907	5965	6022	6080	6137	6194	6252	6309		1—6
62	6367	6424	6482	6539	6596	6654	6711	6769	6826	6884		2—12
63	6941	6998	7056	7113	7171	7228	7286	7343	7400	7458		3—17
64	7515	7573	7630	7687	7745	7802	7860	7917	7975	8032		4—23
65	8089	8147	8204	8262	8319	8376	8434	8491	8549	8606		5—29
66	8663	8721	8778	8836	8893	8950	9008	9065	9123	9180		6—35
67	9237	9295	9352	9410	9467	9524	9582	9639	9696	9754		7—41
68	9811	9869	9926	9983	0041	0098	0156	0213	0270	0328		8—46
69	8790385	0442	0500	0557	0615	0672	0729	0787	0844	0901		9—52
7570	0959	1016	1074	1131	1188	1246	1303	1360	1418	1475		
71	1532	1590	1647	1705	1762	1819	1877	1934	1991	2049		
72	2106	2163	2221	2278	2335	2393	2450	2508	2565	2622		
73	2680	2737	2794	2852	2909	2966	3024	3081	3138	3196		
74	3253	3310	3368	3425	3482	3540	3597	3654	3712	3769		
75	3826	3884	3941	3998	4056	4113	4170	4228	4285	4342		
76	4400	4457	4514	4572	4629	4686	4744	4801	4858	4916		
77	4973	5030	5088	5145	5202	5259	5317	5374	5431	5489		
78	5546	5603	5661	5718	5775	5833	5890	5947	6004	6062		
79	6119	6176	6234	6291	6348	6406	6463	6520	6577	6635		
7580	6692	6749	6807	6864	6921	6979	7036	7093	7150	7208		57
81	7265	7322	7380	7437	7494	7551	7609	7666	7723	7781		1—6
82	7838	7895	7952	8010	8067	8124	8181	8239	8296	8353		2—11
83	8411	8468	8525	8582	8640	8697	8754	8811	8869	8926		3—17
84	8983	9041	9098	9155	9212	9270	9327	9384	9441	9499		4—23
85	9556	9613	9670	9728	9785	9842	9899	9957	0014	0071		5—28
86	8800128	0186	0243	0300	0357	0415	0472	0529	0586	0644		6—34
87	0701	0758	0815	0873	0930	0987	1044	1102	1159	1216		7—40
88	1273	1330	1388	1445	1502	1559	1617	1674	1731	1788		8—46
89	1846	1903	1960	2017	2074	2132	2189	2246	2303	2361		9—51
7590	2418	2475	2532	2589	2647	2704	2761	2818	2875	2933		
91	2990	3047	3104	3162	3219	3276	3333	3390	3448	3505		
92	3562	3619	3676	3734	3791	3848	3905	3962	4020	4077		
93	4134	4191	4248	4306	4363	4420	4477	4534	4592	4649		
94	4706	4763	4820	4877	4935	4992	5049	5106	5163	5221		
95	5278	5335	5392	5449	5507	5564	5621	5678	5735	5792		
96	5850	5907	5964	6021	6078	6135	6193	6250	6307	6364		
97	6421	6478	6536	6593	6650	6707	6764	6821	6879	6936		
98	6993	7050	7107	7164	7222	7279	7336	7393	7450	7507		
99	7564	7622	7679	7736	7793	7850	7907	7964	8022	8079		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

	0	1	2	3	4	5	6	7	8	9	D	Pts.
7600	880	8136	8193	8250	8307	8364	8422	8479	8536	8593	8650	
01		8707	8764	8822	8879	8936	8993	9050	9107	9164	9222	
02		9279	9336	9393	9450	9507	9564	9621	9679	9736	9793	
03		9850	9907	9964	0021	0078	0136	0193	0250	0307	0364	
04	881	0421	0478	0535	0592	0650	0707	0764	0821	0878	0935	
05		0992	1049	1106	1163	1221	1278	1335	1392	1449	1506	
06		1563	1620	1677	1735	1792	1849	1906	1963	2020	2077	
07		2134	2191	2248	2305	2363	2420	2477	2534	2591	2648	
08		2705	2762	2819	2876	2933	2990	3048	3105	3162	3219	
09		3276	3333	3390	3447	3504	3561	3618	3675	3732	3789	
7610		3847	3904	3961	4018	4075	4132	4189	4246	4303	4360	58
11		4417	4474	4531	4588	4645	4703	4760	4817	4874	4931	1—6
12		4988	5045	5102	5159	5216	5273	5330	5387	5444	5501	2—12
13		5558	5615	5672	5729	5786	5844	5901	5958	6015	6072	3—17
14		6129	6186	6243	6300	6357	6414	6471	6528	6585	6642	4—23
15		6699	6756	6813	6870	6927	6984	7041	7098	7155	7212	5—29
16		7269	7326	7383	7440	7497	7554	7611	7669	7726	7783	6—35
17		7840	7897	7954	8011	8068	8125	8182	8239	8296	8353	7—41
18		8410	8467	8524	8581	8638	8695	8752	8809	8866	8923	8—46
19		8980	9037	9094	9151	9208	9265	9322	9379	9436	9493	9—52
7620		9550	9607	9664	9721	9778	9835	9892	9949	0006	0063	
21	882	0120	0177	0234	0291	0348	0405	0462	0519	0575	0632	
22		0689	0746	0803	0860	0917	0974	1031	1088	1145	1202	
23		1259	1316	1373	1430	1487	1544	1601	1658	1715	1772	
24		1829	1886	1943	2000	2057	2114	2171	2228	2285	2342	
25		2398	2455	2512	2569	2626	2683	2740	2797	2854	2911	
26		2968	3025	3082	3139	3196	3253	3310	3367	3424	3481	
27		3537	3594	3651	3708	3765	3822	3879	3936	3993	4050	
28		4107	4164	4221	4278	4335	4392	4448	4505	4562	4619	
29		4676	4733	4790	4847	4904	4961	5018	5075	5132	5188	
7630		5245	5302	5359	5416	5473	5530	5587	5644	5701	5758	57
31		5815	5871	5928	5985	6042	6099	6156	6213	6270	6327	1—6
32		6384	6441	6497	6554	6611	6668	6725	6782	6839	6896	2—11
33		6953	7010	7066	7123	7180	7237	7294	7351	7408	7465	3—17
34		7522	7578	7635	7692	7749	7806	7863	7920	7977	8034	4—23
35		8090	8147	8204	8261	8318	8375	8432	8489	8545	8602	5—28
36		8659	8716	8773	8830	8887	8944	9000	9057	9114	9171	6—34
37		9228	9285	9342	9399	9455	9512	9569	9626	9683	9740	7—40
38		9797	9853	9910	9967	0024	0081	0138	0195	0251	0308	8—46
39	883	0365	0422	0479	0536	0593	0649	0706	0763	0820	0877	9—51
7640		0934	0990	1047	1104	1161	1218	1275	1331	1388	1445	
41		1502	1559	1616	1673	1729	1786	1843	1900	1957	2014	
42		2070	2127	2184	2241	2298	2354	2411	2468	2525	2582	
43		2639	2695	2752	2809	2866	2923	2980	3036	3093	3150	
44		3207	3264	3320	3377	3434	3491	3548	3604	3661	3718	
45		3775	3832	3889	3945	4002	4059	4116	4173	4229	4286	
46		4343	4400	4457	4513	4570	4627	4684	4741	4797	4854	
47		4911	4968	5024	5081	5138	5195	5252	5308	5365	5422	
48		5479	5536	5592	5649	5706	5763	5819	5876	5933	5990	
49		6047	6103	6160	6217	6274	6330	6387	6444	6501	6558	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 76500 L.883

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
7650	883	6614	6671	6728	6785	6841	6898	6955	7012	7068	7125	
51	7182	7239	7296	7352	7409		7466	7523	7579	7636	7693	
52	7750	7806	7863	7920	7977		8033	8090	8147	8204	8260	
53	8317	8374	8431	8487	8544		8601	8658	8714	8771	8828	
54	8885	8941	8998	9055	9112		9168	9225	9282	9338	9395	
55	9452	9509	9565	9622	9679		9736	9792	9849	9906	9963	
56	884	0019	0076	0133	0189	0246	0303	0360	0416	0473	0530	
57	0586	0643	0700	0757	0813		0870	0927	0983	1040	1097	
58	1154	1210	1267	1324	1380		1437	1494	1551	1607	1664	
59	1721	1777	1834	1891	1948		2004	2061	2118	2174	2231	
7660	2288	2344	2401	2458	2514		2571	2628	2685	2741	2798	57
61	2855	2911	2968	3025	3081		3138	3195	3251	3308	3365	1—6
62	3421	3478	3535	3592	3648		3705	3762	3818	3875	3932	2—11
63	3988	4045	4102	4158	4215		4272	4328	4385	4442	4498	3—17
64	4555	4612	4668	4725	4782		4838	4895	4952	5008	5065	4—23
65	5122	5178	5235	5292	5348		5405	5462	5518	5575	5631	5—28
66	5688	5745	5801	5858	5915		5971	6028	6085	6141	6198	6—34
67	6255	6311	6368	6425	6481		6538	6594	6651	6708	6764	7—40
68	6821	6878	6934	6991	7048		7104	7161	7217	7274	7331	8—46
69	7387	7444	7501	7557	7614		7671	7727	7784	7840	7897	9—51
7670	7954	8010	8067	8124	8180		8237	8293	8350	8407	8463	
71	8520	8576	8633	8690	8746		8803	8860	8916	8973	9029	
72	9086	9143	9199	9256	9312		9369	9426	9482	9539	9595	
73	9652	9709	9765	9822	9878		9935	9992	0048	0105	0161	
74	885	0218	0275	0331	0388	0444	0501	0557	0614	0671	0727	
75	0784	0840	0897	0954	1010		1067	1123	1180	1237	1293	
76	1350	1406	1463	1519	1576		1633	1689	1746	1802	1859	
77	1915	1972	2029	2085	2142		2198	2255	2311	2368	2425	
78	2481	2538	2594	2651	2707		2764	2820	2877	2934	2990	
79	3047	3103	3160	3216	3273		3329	3386	3443	3499	3556	
7680	3612	3669	3725	3782	3838		3895	3951	4008	4065	4121	56
81	4178	4234	4291	4347	4404		4460	4517	4573	4630	4686	1—6
82	4743	4800	4856	4913	4969		5026	5082	5139	5195	5252	2—11
83	5308	5365	5421	5478	5534		5591	5647	5704	5761	5817	3—17
84	5874	5930	5987	6043	6100		6156	6213	6269	6326	6382	4—22
85	6439	6495	6552	6608	6665		6721	6778	6834	6891	6947	5—28
86	7004	7060	7117	7173	7230		7286	7343	7399	7456	7512	6—34
87	7569	7625	7682	7738	7795		7851	7908	7964	8021	8077	7—39
88	8134	8190	8247	8303	8360		8416	8473	8529	8586	8642	8—45
89	8699	8755	8812	8868	8925		8981	9037	9094	9150	9207	9—50
7690	9263	9320	9376	9433	9489		9546	9602	9659	9715	9772	
91	9828	9885	9941	9998	0054		0110	0167	0223	0280	0336	
92	886	0393	0449	0506	0562	0619	0675	0732	0788	0844	0901	
93	0957	1014	1070	1127	1183		1240	1296	1352	1409	1465	
94	1522	1578	1635	1691	1748		1804	1860	1917	1973	2030	
95	2086	2143	2199	2256	2312		2368	2425	2481	2538	2594	
96	2651	2707	2763	2820	2876		2933	2989	3046	3102	3158	
97	3215	3271	3328	3384	3441		3497	3553	3610	3666	3723	
98	3779	3835	3892	3948	4005		4061	4118	4174	4230	4287	
99	4343	4400	4456	4512	4569		4625	4682	4738	4794	4851	
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 77000 L. 886

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7700	886	4907	4964	5020	5076	5133	5189	5246	5302	5358	5415	
01	5471	5528	5584	5640	5697	5753	5810	5866	5922	5979		
02	6035	6092	6148	6204	6261	6317	6373	6430	6486	6543		
03	6599	6655	6712	6768	6824	6881	6937	6994	7050	7106		
04	7163	7219	7275	7332	7388	7445	7501	7557	7614	7670		
05	7726	7783	7839	7896	7952	8008	8065	8121	8177	8234		
06	8290	8346	8403	8459	8515	8572	8628	8685	8741	8797		
07	8854	8910	8966	9023	9079	9135	9192	9248	9304	9361		
08	9417	9473	9530	9586	9642	9699	9755	9811	9868	9924		
09	9980	0037	0093	0149	0206	0262	0318	0375	0431	0487		
7710	887	0544	0600	0656	0713	0769	0825	0882	0938	0994	1051	57
11	1107	1163	1220	1276	1332	1389	1445	1501	1558	1614		1—6
12	1670	1727	1783	1839	1895	1952	2008	2064	2121	2177		2—11
13	2233	2290	2346	2402	2459	2515	2571	2627	2684	2740		3—17
14	2796	2853	2909	2965	3022	3078	3134	3190	3247	3303		4—23
15	3359	3416	3472	3528	3584	3641	3697	3753	3810	3866		5—28
16	3922	3978	4035	4091	4147	4204	4260	4316	4372	4429		6—34
17	4485	4541	4598	4654	4710	4766	4823	4879	4935	4991		7—40
18	5048	5104	5160	5217	5273	5329	5385	5442	5498	5554		8—46
19	5610	5667	5723	5779	5835	5892	5948	6004	6060	6117		9—51
7720	6173	6229	6286	6342	6398	6454	6511	6567	6623	6679		
21	6736	6792	6848	6904	6961	7017	7073	7129	7185	7242		
22	7298	7354	7410	7467	7523	7579	7635	7692	7748	7804		
23	7860	7917	7973	8029	8085	8142	8198	8254	8310	8366		
24	8423	8479	8535	8591	8648	8704	8760	8816	8872	8929		
25	8985	9041	9097	9154	9210	9266	9322	9378	9435	9491		
26	9547	9603	9659	9716	9772	9828	9884	9941	9997	0053		
27	888	0109	0165	0222	0278	0334	0390	0446	0503	0559		
28	0671	0727	0784	0840	0896	0952	1008	1064	1121	1177		
29	1233	1289	1345	1402	1458	1514	1570	1626	1683	1739		
7730	1795	1851	1907	1963	2020	2076	2132	2188	2244	2301		56
31	2357	2413	2469	2525	2581	2638	2694	2750	2806	2862		1—6
32	2918	2975	3031	3087	3143	3199	3255	3312	3368	3424		2—11
33	3480	3536	3592	3649	3705	3761	3817	3873	3929	3986		3—17
34	4042	4098	4154	4210	4266	4322	4379	4435	4491	4547		4—22
35	4603	4659	4715	4772	4828	4884	4940	4996	5052	5108		5—28
36	5165	5221	5277	5333	5389	5445	5501	5558	5614	5670		6—34
37	5726	5782	5838	5894	5950	6007	6063	6119	6175	6231		7—39
38	6287	6343	6400	6456	6512	6568	6624	6680	6736	6792		8—45
39	6848	6905	6961	7017	7073	7129	7185	7241	7297	7353		9—50
7740	7410	7466	7522	7578	7634	7690	7746	7802	7858	7915		
41	7971	8027	8083	8139	8195	8251	8307	8363	8419	8476		
42	8532	8588	8644	8700	8756	8812	8868	8924	8980	9037		
43	9093	9149	9205	9261	9317	9373	9429	9485	9541	9597		
44	9653	9710	9766	9822	9878	9934	9990	0046	0102	0158		
45	889	0214	0270	0326	0382	0439	0495	0551	0607	0663		
46	0775	0831	0887	0943	0999	1055	1111	1167	1223	1279		
47	1336	1392	1448	1504	1560	1616	1672	1728	1784	1840		
48	1896	1952	2008	2064	2120	2176	2232	2288	2345	2401		
49	2457	2513	2569	2625	2681	2737	2793	2849	2905	2961		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7750	889	3017	3073	3129	3185	3241	3297	3353	3409	3465	3521	
51		3577	3633	3689	3745	3801	3858	3914	3970	4026	4082	
52		4138	4194	4250	4306	4362	4418	4474	4530	4586	4642	
53		4698	4754	4810	4866	4922	4978	5034	5090	5146	5202	
54		5258	5314	5370	5426	5482	5538	5594	5650	5706	5762	
55		5818	5874	5930	5986	6042	6098	6154	6210	6266	6322	56
56		6378	6434	6490	6546	6602	6658	6714	6770	6826	6882	
57		6938	6994	7050	7106	7162	7218	7274	7330	7386	7442	
58		7498	7554	7610	7666	7722	7778	7834	7890	7946	8002	
59		8058	8113	8169	8225	8281	8337	8393	8449	8505	8561	
7760		8617	8673	8729	8785	8841	8897	8953	9009	9065	9121	56
61		9177	9233	9289	9345	9401	9457	9513	9569	9624	9680	1-6
62		9736	9792	9848	9904	9960	0016	0072	0128	0184	0240	2-11
63	890	0296	0352	0408	0464	0520	0576	0632	0687	0743	0799	3-17
64		0855	0911	0967	1023	1079	1135	1191	1247	1303	1359	4-22
65		1415	1471	1526	1582	1638	1694	1750	1806	1862	1918	5-28
66		1974	2030	2086	2142	2198	2253	2309	2365	2421	2477	6-34
67		2533	2589	2645	2701	2757	2813	2869	2924	2980	3036	7-39
68		3092	3148	3204	3260	3316	3372	3428	3484	3539	3595	8-45
69		3651	3707	3763	3819	3875	3931	3987	4043	4098	4154	9-50
7770		4210	4266	4322	4378	4434	4490	4546	4601	4657	4713	
71		4769	4825	4881	4937	4993	5049	5104	5160	5216	5272	
72		5328	5384	5440	5496	5551	5607	5663	5719	5775	5831	
73		5887	5943	5998	6054	6110	6166	6222	6278	6334	6389	
74		6445	6501	6557	6613	6669	6725	6781	6836	6892	6948	
75		7004	7060	7116	7172	7227	7283	7339	7395	7451	7507	
76		7563	7618	7674	7730	7786	7842	7898	7953	8009	8065	
77		8121	8177	8233	8289	8344	8400	8456	8512	8568	8624	
78		8679	8735	8791	8847	8903	8959	9014	9070	9126	9182	
79		9238	9294	9349	9405	9461	9517	9573	9629	9684	9740	
7780		9796	9852	9908	9963	0019	0075	0131	0187	0243	0298	55
81	891	0354	0410	0466	0522	0577	0633	0689	0745	0801	0856	1-5
82		0912	0968	1024	1080	1135	1191	1247	1303	1359	1415	2-11
83		1470	1526	1582	1638	1693	1749	1805	1861	1917	1972	3-16
84		2028	2084	2140	2196	2251	2307	2363	2419	2475	2530	4-22
85		2586	2642	2698	2754	2809	2865	2921	2977	3032	3088	5-27
86		3144	3200	3256	3311	3367	3423	3479	3534	3590	3646	6-33
87		3702	3758	3813	3869	3925	3981	4036	4092	4148	4204	7-38
88		4259	4315	4371	4427	4482	4538	4594	4650	4706	4761	8-44
89		4817	4873	4929	4984	5040	5096	5152	5207	5263	5319	9-49
7790		5375	5430	5486	5542	5598	5653	5709	5765	5821	5876	
91		5932	5988	6044	6099	6155	6211	6266	6322	6378	6434	
92		6489	6545	6601	6657	6712	6768	6824	6880	6935	6991	
93		7047	7102	7158	7214	7270	7325	7381	7437	7493	7548	
94		7604	7660	7715	7771	7827	7883	7938	7994	8050	8105	
95		8161	8217	8273	8328	8384	8440	8495	8551	8607	8663	
96		8718	8774	8830	8885	8941	8997	9053	9108	9164	9220	
97		9275	9331	9387	9442	9498	9554	9610	9665	9721	9777	
98		9832	9888	9944	9999	0055	0111	0166	0222	0278	0334	
99	892	0389	0445	0501	0556	0612	0668	0723	0779	0835	0890	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7800	8920946	1002	1057	1113	1169	1224	1280	1336	1391	1447		
01	1503	1558	1614	1670	1725	1781	1837	1892	1948	2004		
02	2059	2115	2171	2226	2282	2338	2393	2449	2505	2560		
03	2616	2672	2727	2783	2839	2894	2950	3006	3061	3117		
04	3173	3228	3284	3340	3395	3451	3506	3562	3618	3673		
05	3729	3785	3840	3896	3952	4007	4063	4119	4174	4230		
06	4285	4341	4397	4452	4508	4564	4619	4675	4731	4786		
07	4842	4897	4953	5009	5064	5120	5176	5231	5287	5342		
08	5398	5454	5509	5565	5621	5676	5732	5787	5843	5899		
09	5954	6010	6065	6121	6177	6232	6288	6344	6399	6455		
7810	6510	6566	6622	6677	6733	6788	6844	6900	6955	7011		
11	7066	7122	7178	7233	7289	7344	7400	7456	7511	7567		56
12	7622	7678	7734	7789	7845	7900	7956	8011	8067	8123		1—6
13	8178	8234	8289	8345	8401	8456	8512	8567	8623	8678		2—11
14	8734	8790	8845	8901	8956	9012	9068	9123	9179	9234		3—17
15	9290	9345	9401	9457	9512	9568	9623	9679	9734	9790		4—22
16	9846	9901	9957	0012	0068	0123	0179	0234	0290	0346		5—28
17	8930401	0457	0512	0568	0623	0679	0734	0790	0846	0901		6—34
18	0957	1012	1068	1123	1179	1234	1290	1345	1401	1457		7—39
19	1512	1568	1623	1679	1734	1790	1845	1901	1956	2012		8—45
7820	2068	2123	2179	2234	2290	2345	2401	2456	2512	2567		9—50
21	2623	2678	2734	2789	2845	2900	2956	3012	3067	3123		
22	3178	3234	3289	3345	3400	3456	3511	3567	3622	3678		
23	3733	3789	3844	3900	3955	4011	4066	4122	4177	4233		
24	4288	4344	4399	4455	4510	4566	4621	4677	4732	4788		
25	4843	4899	4954	5010	5065	5121	5176	5232	5287	5343		
26	5398	5454	5509	5565	5620	5676	5731	5787	5842	5898		
27	5953	6009	6064	6120	6175	6231	6286	6342	6397	6453		
28	6508	6564	6619	6675	6730	6786	6841	6897	6952	7007		
29	7063	7118	7174	7229	7285	7340	7396	7451	7507	7562		
7830	7618	7673	7729	7784	7839	7895	7950	8006	8061	8117		55
31	8172	8228	8283	8339	8394	8450	8505	8560	8616	8671		1—5
32	8727	8782	8838	8893	8949	9004	9059	9115	9170	9226		2—11
33	9281	9337	9392	9448	9503	9558	9614	9669	9725	9780		3—16
34	9836	9891	9947	0002	0057	0113	0168	0224	0279	0335		4—22
35	8940390	0445	0501	0556	0612	0667	0723	0778	0833	0889		5—27
36	0944	1000	1055	1111	1166	1221	1277	1332	1388	1443		6—33
37	1498	1554	1609	1665	1720	1776	1831	1886	1942	1997		7—38
38	2053	2108	2163	2219	2274	2330	2385	2440	2496	2551		8—44
39	2607	2662	2717	2773	2828	2884	2939	2994	3050	3105		9—49
7840	3161	3216	3271	3327	3382	3438	3493	3548	3604	3659		
41	3715	3770	3825	3881	3936	3991	4047	4102	4158	4213		
42	4268	4324	4379	4435	4490	4545	4601	4656	4711	4767		
43	4822	4878	4933	4988	5044	5099	5154	5210	5265	5320		
44	5376	5431	5487	5542	5597	5653	5708	5763	5819	5874		
45	5929	5985	6040	6096	6151	6206	6262	6317	6372	6428		
46	6483	6538	6594	6649	6704	6760	6815	6870	6926	6981		
47	7037	7092	7147	7203	7258	7313	7369	7424	7479	7535		
48	7590	7645	7701	7756	7811	7867	7922	7977	8033	8088		
49	8143	8199	8254	8309	8365	8420	8475	8531	8586	8641		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 78500 L. 894

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7850	894	8697	8752	8807	8863	8918	8973	9028	9084	9139	9194	
51		9250	9305	9360	9416	9471	9526	9582	9637	9692	9748	
52		9803	9858	9914	9969	0024	0079	0135	0190	0245	0301	
53	895	0356	0411	0467	0522	0577	0632	0688	0743	0798	0854	
54		0909	0964	1020	1075	1130	1185	1241	1296	1351	1407	
55		1462	1517	1572	1628	1683	1738	1794	1849	1904	1959	
56		2015	2070	2125	2181	2236	2291	2346	2402	2457	2512	
57		2568	2623	2678	2733	2789	2844	2899	2954	3010	3065	
58		3120	3176	3231	3286	3341	3397	3452	3507	3562	3618	
59		3673	3728	3783	3839	3894	3949	4004	4060	4115	4170	
7860		4225	4281	4336	4391	4446	4502	4557	4612	4667	4723	56
61		4778	4833	4888	4944	4999	5054	5109	5165	5220	5275	1-6
62		5330	5386	5441	5496	5551	5607	5662	5717	5772	5828	2-11
63		5883	5938	5993	6048	6104	6159	6214	6269	6325	6380	3-17
64		6435	6490	6545	6601	6656	6711	6766	6822	6877	6932	4-22
65		6987	7042	7098	7153	7208	7263	7319	7374	7429	7484	5-28
66		7539	7595	7650	7705	7760	7815	7871	7926	7981	8036	6-34
67		8092	8147	8202	8257	8312	8368	8423	8478	8533	8588	7-39
68		8644	8699	8754	8809	8864	8919	8975	9030	9085	9140	8-45
69		9195	9251	9306	9361	9416	9471	9527	9582	9637	9692	9-50
7870		9748	9803	9858	9913	9968	0023	0078	0134	0189	0244	
71	896	0299	0354	0409	0465	0520	0575	0630	0685	0741	0796	
72		0851	0906	0961	1016	1072	1127	1182	1237	1292	1347	
73		1403	1458	1513	1568	1623	1678	1733	1789	1844	1899	
74		1954	2009	2064	2120	2175	2230	2285	2340	2395	2450	
75		2506	2561	2616	2671	2726	2781	2836	2892	2947	3002	
76		3057	3112	3167	3222	3278	3333	3388	3443	3498	3553	
77		3608	3664	3719	3774	3829	3884	3939	3994	4050	4105	
78		4160	4215	4270	4325	4380	4435	4491	4546	4601	4656	
79		4711	4766	4821	4876	4931	4987	5042	5097	5152	5207	
7880		5262	5317	5372	5428	5483	5538	5593	5648	5703	5758	55
81		5813	5868	5923	5979	6034	6089	6144	6199	6254	6309	1-5
82		6364	6419	6475	6530	6585	6640	6695	6750	6805	6860	2-11
83		6915	6970	7025	7081	7136	7191	7246	7301	7356	7411	3-16
84		7466	7521	7576	7631	7686	7742	7797	7852	7907	7962	4-22
85		8017	8072	8127	8182	8237	8292	8347	8403	8458	8513	5-27
86		8568	8623	8678	8733	8788	8843	8898	8953	9008	9063	6-33
87		9118	9173	9229	9284	9339	9394	9449	9504	9559	9614	7-38
88		9669	9724	9779	9834	9889	9944	9999	0054	0109	0165	8-44
89	897	0220	0275	0330	0385	0440	0495	0550	0605	0660	0715	9-49
7890		0770	0825	0880	0935	0990	1045	1100	1155	1210	1265	
91		1320	1375	1431	1486	1541	1596	1651	1706	1761	1816	
92		1871	1926	1981	2036	2091	2146	2201	2256	2311	2366	
93		2421	2476	2531	2586	2641	2696	2751	2806	2861	2916	
94		2971	3026	3081	3136	3191	3246	3301	3356	3411	3466	
95		3521	3576	3631	3686	3741	3796	3851	3906	3961	4016	
96		4071	4126	4181	4236	4291	4346	4401	4456	4511	4566	55
97		4621	4676	4731	4786	4841	4896	4951	5006	5061	5116	
98		5171	5226	5281	5336	5391	5446	5501	5556	5611	5666	
99		5721	5776	5831	5886	5941	5996	6051	6106	6161	6216	
Num	0	1	2	3	4	5	6	7	8	9	D	Pts.

Num	0	1	2	3	4	5	6	7	8	9	D	Pro.
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Num.	0	1	2	3	4	5	6	7	8	9	D	Pta.
7900	897	6271	6326	6381	6436	6491	6546	6601	6656	6711	6766	
01		6821	6876	6931	6986	7040	7095	7150	7205	7260	7315	
02		7370	7425	7480	7535	7590	7645	7700	7755	7810	7865	
03		7920	7975	8030	8085	8140	8195	8250	8304	8359	8414	
04		8469	8524	8579	8634	8689	8744	8799	8854	8909	8964	
05		9019	9074	9129	9184	9238	9293	9348	9403	9458	9513	
06		9568	9623	9678	9733	9788	9843	9898	9953	0008	0062	
07	898	0117	0172	0227	0282	0337	0392	0447	0502	0557	0612	
08		0667	0722	0776	0831	0886	0941	0996	1051	1106	1161	
09		1216	1271	1326	1380	1435	1490	1545	1600	1655	1710	
7910		1765	1820	1875	1930	1984	2039	2094	2149	2204	2259	55
11		2314	2369	2424	2479	2533	2588	2643	2698	2753	2808	1—5
12		2863	2918	2973	3027	3082	3137	3192	3247	3302	3357	2—11
13		3412	3467	3521	3576	3631	3686	3741	3796	3851	3906	3—16
14		3960	4015	4070	4125	4180	4235	4290	4345	4399	4454	4—22
15		4509	4564	4619	4674	4729	4784	4838	4893	4948	5003	5—27
16		5058	5113	5168	5222	5277	5332	5387	5442	5497	5552	6—33
17		5606	5661	5716	5771	5826	5881	5936	5990	6045	6100	7—38
18		6155	6210	6265	6320	6374	6429	6484	6539	6594	6649	8—44
19		6703	6758	6813	6868	6923	6978	7032	7087	7142	7197	9—49
7920		7252	7307	7361	7416	7471	7526	7581	7636	7690	7745	
21		7800	7855	7910	7965	8019	8074	8129	8184	8239	8294	
22		8348	8403	8458	8513	8568	8622	8677	8732	8787	8842	
23		8897	8951	9006	9061	9116	9171	9225	9280	9335	9390	
24		9445	9499	9554	9609	9664	9719	9774	9828	9883	9938	
25		9993	0048	0102	0157	0212	0267	0321	0376	0431	0486	
26	899	0541	0595	0650	0705	0760	0815	0869	0924	0979	1034	
27		1089	1143	1198	1253	1308	1363	1417	1472	1527	1582	
28		1636	1691	1746	1801	1856	1910	1965	2020	2075	2129	
29		2184	2239	2294	2348	2403	2458	2513	2568	2622	2677	
7930		2732	2787	2841	2896	2951	3006	3060	3115	3170	3225	54
31		3279	3334	3389	3444	3499	3553	3608	3663	3718	3772	1—5
32		3827	3882	3937	3991	4046	4101	4156	4210	4265	4320	2—11
33		4375	4429	4484	4539	4594	4648	4703	4758	4812	4867	3—16
34		4922	4977	5031	5086	5141	5196	5250	5305	5360	5415	4—22
35		5469	5524	5579	5634	5688	5743	5798	5852	5907	5962	5—27
36		6017	6071	6126	6181	6235	6290	6345	6400	6454	6509	6—32
37		6564	6619	6673	6728	6783	6837	6892	6947	7002	7056	7—38
38		7111	7166	7220	7275	7330	7384	7439	7494	7549	7603	8—43
39		7658	7713	7767	7822	7877	7932	7986	8041	8096	8150	9—49
7940		8205	8260	8314	8369	8424	8479	8533	8588	8643	8697	
41		8752	8807	8861	8916	8971	9025	9080	9135	9189	9244	
42		9299	9354	9408	9463	9518	9572	9627	9682	9736	9791	
43		9846	9900	9955	0010	0064	0119	0174	0228	0283	0338	
44	900	0392	0447	0502	0556	0611	0666	0720	0775	0830	0884	
45		0939	0994	1048	1103	1158	1212	1267	1322	1376	1431	
46		1486	1540	1595	1650	1704	1759	1814	1868	1923	1977	
47		2032	2087	2141	2196	2251	2305	2360	2415	2469	2524	
48		2579	2633	2688	2743	2797	2852	2906	2961	3016	3070	
49		3125	3180	3234	3289	3344	3398	3453	3507	3562	3617	
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
7950	900	3671	3726	3781	3835	3890	3944	3999	4054	4108	4163	
51		4218	4272	4327	4381	4436	4491	4545	4600	4654	4709	
52		4764	4818	4873	4928	4982	5037	5091	5146	5201	5255	
53		5310	5364	5419	5474	5528	5583	5637	5692	5747	5801	
54		5856	5910	5965	6020	6074	6129	6183	6238	6293	6347	
55		6402	6456	6511	6566	6620	6675	6729	6784	6839	6893	
56		6948	7002	7057	7112	7166	7221	7275	7330	7384	7439	
57		7494	7548	7603	7657	7712	7766	7821	7876	7930	7985	
58		8039	8094	8148	8203	8258	8312	8367	8421	8476	8530	
59		8585	8640	8694	8749	8803	8858	8912	8967	9022	9076	
7960		9131	9185	9240	9294	9349	9403	9458	9513	9567	9622	55
61		9676	9731	9785	9840	9894	9949	0004	0058	0113	0167	1—5
62	901	0222	0276	0331	0385	0440	0494	0549	0604	0658	0713	2—11
63		0767	0822	0876	0931	0985	1040	1094	1149	1203	1258	3—16
64		1313	1367	1422	1476	1531	1585	1640	1694	1749	1803	4—22
65		1858	1912	1967	2021	2076	2130	2185	2239	2294	2349	5—27
66		2403	2458	2512	2567	2621	2676	2730	2785	2839	2894	6—33
67		2948	3003	3057	3112	3166	3221	3275	3330	3384	3439	7—38
68		3493	3548	3602	3657	3711	3766	3820	3875	3929	3984	8—44
69		4038	4093	4147	4202	4256	4311	4365	4420	4474	4529	9—49
7970		4583	4638	4692	4747	4801	4856	4910	4965	5019	5074	
71		5128	5183	5237	5292	5346	5401	5455	5509	5564	5618	
72		5673	5727	5782	5836	5891	5945	6000	6054	6109	6163	
73		6218	6272	6327	6381	6436	6490	6544	6599	6653	6708	
74		6762	6817	6871	6926	6980	7035	7089	7144	7198	7252	
75		7307	7361	7416	7470	7525	7579	7634	7688	7743	7797	
76		7851	7906	7960	8015	8069	8124	8178	8233	8287	8341	
77		8396	8450	8505	8559	8614	8668	8723	8777	8831	8886	
78		8940	8995	9049	9104	9158	9212	9267	9321	9376	9430	
79		9485	9539	9594	9648	9702	9757	9811	9866	9920	9974	
7980	902	0029	0083	0138	0192	0247	0301	0355	0410	0464	0519	54
81		0573	0628	0682	0736	0791	0845	0900	0954	1008	1063	1—5
82		1117	1172	1226	1280	1335	1389	1444	1498	1552	1607	2—11
83		1661	1716	1770	1824	1879	1933	1988	2042	2096	2151	3—16
84		2205	2260	2314	2368	2423	2477	2532	2586	2640	2695	4—22
85		2749	2804	2858	2912	2967	3021	3076	3130	3184	3239	5—27
86		3293	3347	3402	3456	3511	3565	3619	3674	3728	3782	6—32
87		3837	3891	3946	4000	4054	4109	4163	4217	4272	4326	7—38
88		4381	4435	4489	4544	4598	4652	4707	4761	4815	4870	8—43
89		4924	4979	5033	5087	5142	5196	5250	5305	5359	5413	9—49
7990		5468	5522	5577	5631	5685	5740	5794	5848	5903	5957	
91		6011	6066	6120	6174	6229	6283	6337	6392	6446	6500	
92		6555	6609	6663	6718	6772	6826	6881	6935	6989	7044	
93		7098	7152	7207	7261	7315	7370	7424	7478	7533	7587	
94		7641	7696	7750	7804	7859	7913	7967	8022	8076	8130	
95		8185	8239	8293	8348	8402	8456	8511	8565	8619	8674	
96		8728	8782	8836	8891	8945	8999	9054	9108	9162	9217	
97		9271	9325	9380	9434	9488	9542	9597	9651	9705	9760	
98		9814	9868	9923	9977	0031	0085	0140	0194	0248	0303	
99	903	0357	0411	0466	0520	0574	0628	0683	0737	0791	0846	
Num	0	1	2	3	4	5	6	7	8	9	Pro.	

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
8000	903	0900	0954	1008	1063	1117	1171	1226	1280	1334	1388	
01		1443	1497	1551	1606	1660	1714	1768	1823	1877	1931	
02		1985	2040	2094	2148	2203	2257	2311	2365	2420	2474	
03		2528	2582	2637	2691	2745	2799	2854	2908	2962	3017	
04		3071	3125	3179	3234	3288	3342	3396	3451	3505	3559	
05		3613	3668	3722	3776	3830	3885	3939	3993	4047	4102	
06		4156	4210	4264	4319	4373	4427	4481	4536	4590	4644	
07		4698	4753	4807	4861	4915	4969	5024	5078	5132	5186	
08		5241	5295	5349	5403	5458	5512	5566	5620	5674	5729	
09		5783	5837	5891	5946	6000	6054	6108	6163	6217	6271	
8010		6325	6379	6434	6488	6542	6596	6650	6705	6759	6813	55
11		6867	6922	6976	7030	7084	7138	7193	7247	7301	7355	1—5
12		7409	7464	7518	7572	7626	7680	7735	7789	7843	7897	2—11
13		7951	8006	8060	8114	8168	8222	8277	8331	8385	8439	3—16
14		8493	8548	8602	8656	8710	8764	8819	8873	8927	8981	4—22
15		9035	9089	9144	9198	9252	9306	9360	9415	9469	9523	5—27
16		9577	9631	9685	9740	9794	9848	9902	9956	0010	0065	6—33
17	904	0119	0173	0227	0281	0336	0390	0444	0498	0552	0606	7—38
18		0661	0715	0769	0823	0877	0931	0985	1040	1094	1148	8—44
19		1202	1256	1310	1365	1419	1473	1527	1581	1635	1690	9—49
8020		1744	1798	1852	1906	1960	2014	2069	2123	2177	2231	
21		2285	2339	2393	2448	2502	2556	2610	2664	2718	2772	
22		2827	2881	2935	2989	3043	3097	3151	3206	3260	3314	
23		3368	3422	3476	3530	3584	3639	3693	3747	3801	3855	
24		3909	3963	4017	4072	4126	4180	4234	4288	4342	4396	
25		4450	4505	4559	4613	4667	4721	4775	4829	4883	4937	
26		4992	5046	5100	5154	5208	5262	5316	5370	5424	5479	
27		5533	5587	5641	5695	5749	5803	5857	5911	5965	6020	
28		6074	6128	6182	6236	6290	6344	6398	6452	6506	6560	
29		6615	6669	6723	6777	6831	6885	6939	6993	7047	7101	
8030		7155	7210	7264	7318	7372	7426	7480	7534	7588	7642	54
31		7696	7750	7804	7858	7913	7967	8021	8075	8129	8183	1—5
32		8237	8291	8345	8399	8453	8507	8561	8615	8670	8724	2—11
33		8778	8832	8886	8940	8994	9048	9102	9156	9210	9264	3—16
34		9318	9372	9426	9480	9534	9589	9643	9697	9751	9805	4—22
35		9859	9913	9967	0021	0075	0129	0183	0237	0291	0345	5—27
36	905	0399	0453	0507	0561	0615	0669	0724	0778	0831	0886	6—32
37		0940	0994	1048	1102	1156	1210	1264	1318	1372	1426	7—38
38		1480	1534	1588	1642	1696	1750	1804	1858	1912	1966	8—43
39		2020	2074	2128	2182	2236	2290	2344	2398	2452	2506	9—49
8040		2560	2615	2669	2723	2777	2831	2885	2939	2993	3047	
41		3101	3155	3209	3263	3317	3371	3425	3479	3533	3587	
42		3641	3695	3749	3803	3857	3911	3965	4019	4073	4127	
43		4181	4235	4289	4343	4397	4451	4505	4559	4613	4667	
44		4721	4775	4829	4883	4937	4991	5045	5099	5153	5207	54
45		5260	5314	5368	5422	5476	5530	5584	5638	5692	5746	
46		5800	5854	5908	5962	6016	6070	6124	6178	6232	6286	
47		6340	6394	6448	6502	6556	6610	6664	6718	6772	6826	
48		6880	6934	6988	7042	7096	7149	7203	7257	7311	7365	
49		7419	7473	7527	7581	7635	7689	7743	7797	7851	7905	
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
8050	9057959	8013	8067	8121	8175	8229	8282	8336	8390	8444		
51	8498	8552	8606	8660	8714	8768	8822	8876	8930	8984		
52	9038	9092	9146	9199	9253	9307	9361	9415	9469	9523		
53	9577	9631	9685	9739	9793	9847	9901	9954	0008	0062		
54	9060116	0170	0224	0278	0332	0386	0440	0494	0548	0601		
55	0655	0709	0763	0817	0871	0925	0979	1033	1087	1141		
56	1195	1248	1302	1356	1410	1464	1518	1572	1626	1680		
57	1734	1788	1841	1895	1949	2003	2057	2111	2165	2219		
58	2273	2327	2380	2434	2488	2542	2596	2650	2704	2758		
59	2812	2865	2919	2973	3027	3081	3135	3189	3243	3297		
8060	3350	3404	3458	3512	3566	3620	3674	3728	3781	3835		
61	3889	3943	3997	4051	4105	4159	4212	4266	4320	4374		54
62	4428	4482	4536	4590	4643	4697	4751	4805	4859	4913		1—5
63	4967	5020	5074	5128	5182	5236	5290	5344	5397	5451		2—11
64	5505	5559	5613	5667	5721	5774	5828	5882	5936	5990		3—16
65	6044	6098	6151	6205	6259	6313	6367	6421	6474	6528		4—22
66	6582	6636	6690	6744	6798	6851	6905	6959	7013	7067		5—27
67	7121	7174	7228	7282	7336	7390	7444	7497	7551	7605		6—32
68	7659	7713	7767	7820	7874	7928	7982	8036	8090	8143		7—38
69	8197	8251	8305	8359	8412	8466	8520	8574	8628	8682		8—43
8070	8735	8789	8843	8897	8951	9004	9058	9112	9166	9220		9—49
71	9273	9327	9381	9435	9489	9543	9596	9650	9704	9758		
72	9812	9865	9919	9973	0027	0081	0134	0188	0242	0296		
73	9070350	0403	0457	0511	0565	0618	0672	0726	0780	0834		
74	0887	0941	0995	1049	1103	1156	1210	1264	1318	1372		
75	1425	1479	1533	1587	1640	1694	1748	1802	1856	1909		
76	1963	2017	2071	2124	2178	2232	2286	2340	2393	2447		
77	2501	2555	2608	2662	2716	2770	2823	2877	2931	2985		
78	3038	3092	3146	3200	3254	3307	3361	3415	3469	3522		
79	3576	3630	3684	3737	3791	3845	3899	3952	4006	4060		
8080	4114	4167	4221	4275	4329	4382	4436	4490	4544	4597		
81	4651	4705	4759	4812	4866	4920	4974	5027	5081	5135		53
82	5188	5242	5296	5350	5403	5457	5511	5565	5618	5672		1—5
83	5726	5779	5833	5887	5941	5994	6048	6102	6156	6209		2—11
84	6263	6317	6370	6424	6478	6532	6585	6639	6693	6747		3—16
85	6800	6854	6908	6961	7015	7069	7123	7176	7230	7284		4—21
86	7337	7391	7445	7498	7552	7606	7660	7713	7767	7821		5—26
87	7874	7928	7982	8036	8089	8143	8197	8250	8304	8358		6—32
88	8411	8465	8519	8573	8626	8680	8734	8787	8841	8895		7—37
89	8948	9002	9056	9109	9163	9217	9270	9324	9378	9432		8—42
8090	9485	9539	9593	9646	9700	9754	9807	9861	9915	9968		9—47
91	9080022	0076	0129	0183	0237	0290	0344	0398	0451	0505		
92	0559	0612	0666	0720	0773	0827	0881	0934	0988	1042		
93	1095	1149	1203	1256	1310	1364	1417	1471	1525	1578		
94	1632	1686	1739	1793	1847	1900	1954	2008	2061	2115		
95	2169	2222	2276	2329	2383	2437	2490	2544	2598	2651		
96	2705	2759	2812	2866	2920	2973	3027	3080	3134	3188		
97	3241	3295	3349	3402	3456	3510	3563	3617	3670	3724		
98	3778	3831	3885	3939	3992	4046	4099	4153	4207	4260		
99	4314	4368	4421	4475	4528	4582	4636	4689	4743	4797		
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8100	908	4850	4904	4957	5011	5065	5118	5172	5225	5279	5333	
01		5386	5440	5494	5547	5601	5654	5708	5762	5815	5869	
02		5922	5976	6030	6083	6137	6190	6244	6298	6351	6405	
03		6458	6512	6566	6619	6673	6726	6780	6834	6887	6941	
04		6994	7048	7102	7155	7209	7262	7316	7369	7423	7477	
05		7530	7584	7637	7691	7745	7798	7852	7905	7959	8012	
06		8066	8120	8173	8227	8280	8334	8387	8441	8495	8548	
07		8602	8655	8709	8762	8816	8870	8923	8977	9030	9084	
08		9137	9191	9245	9298	9352	9405	9459	9512	9566	9619	
09		9673	9727	9780	9834	9887	9941	9994	0048	0101	0155	
8110	909	0209	0262	0316	0369	0423	0476	0530	0583	0637	0690	
11		0744	0798	0851	0905	0958	1012	1065	1119	1172	1226	54
12		1279	1333	1386	1440	1494	1547	1601	1654	1708	1761	1—5
13		1815	1868	1922	1975	2029	2082	2136	2189	2243	2297	2—11
14		2350	2404	2457	2511	2564	2618	2671	2725	2778	2832	3—16
15		2885	2939	2992	3046	3099	3153	3206	3260	3313	3367	4—22
16		3420	3474	3527	3581	3634	3688	3741	3795	3848	3902	5—27
17		3955	4009	4062	4116	4169	4223	4276	4330	4383	4437	6—32
18		4490	4544	4597	4651	4704	4758	4811	4865	4918	4972	7—38
19		5025	5079	5132	5186	5239	5293	5346	5400	5453	5507	8—43
8120		5560	5614	5667	5721	5774	5828	5881	5935	5988	6042	9—49
21		6095	6149	6202	6256	6309	6362	6416	6469	6523	6576	
22		6630	6683	6737	6790	6844	6897	6951	7004	7058	7111	
23		7165	7218	7271	7325	7378	7432	7485	7539	7592	7646	
24		7699	7753	7806	7860	7913	7966	8020	8073	8127	8180	
25		8234	8287	8341	8394	8447	8501	8554	8608	8661	8715	
26		8768	8822	8875	8929	8982	9035	9089	9142	9195	9249	
27		9302	9356	9409	9463	9516	9570	9623	9677	9730	9784	
28		9837	9890	9944	9997	0051	0104	0158	0211	0264	0318	
29	910	0371	0425	0478	0532	0585	0638	0692	0745	0799	0852	
8130		0905	0959	1012	1066	1119	1173	1226	1279	1333	1386	53
31		1440	1493	1546	1600	1653	1707	1760	1813	1867	1920	1—5
32		1974	2027	2081	2134	2187	2241	2294	2348	2401	2454	2—11
33		2508	2561	2615	2668	2721	2775	2828	2881	2935	2988	3—16
34		3042	3095	3148	3202	3255	3309	3362	3415	3469	3522	4—21
35		3576	3629	3682	3736	3789	3842	3896	3949	4003	4056	5—26
36		4109	4163	4216	4270	4323	4376	4430	4483	4536	4590	6—32
37		4643	4697	4750	4803	4857	4910	4963	5017	5070	5123	7—37
38		5177	5230	5284	5337	5390	5444	5497	5550	5604	5657	8—42
39		5710	5764	5817	5871	5924	5977	6031	6084	6137	6191	9—48
8140		6244	6297	6351	6404	6457	6511	6564	6618	6671	6724	
41		6778	6831	6884	6938	6991	7044	7098	7151	7204	7258	
42		7311	7364	7418	7471	7524	7578	7631	7684	7738	7791	
43		7844	7898	7951	8004	8058	8111	8164	8218	8271	8324	
44		8378	8431	8484	8538	8591	8644	8698	8751	8804	8858	
45		8911	8964	9018	9071	9124	9177	9231	9284	9337	9391	
46		9444	9497	9551	9604	9657	9711	9764	9817	9871	9924	
47		9977	0030	0084	0137	0190	0244	0297	0350	0404	0457	
48	911	0510	0564	0617	0670	0723	0777	0830	0883	0937	0990	
49		1043	1096	1150	1203	1256	1310	1363	1416	1470	1523	
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81509	11576	1629	1683	1736	1789	1843	1896	1949	2002	2056		
51	2109	2162	2215	2269	2322	2375	2429	2482	2535	2588		
52	2642	2695	2748	2802	2855	2908	2961	3015	3068	3121		
53	3174	3228	3281	3334	3387	3441	3494	3547	3601	3654		
54	3707	3760	3814	3867	3920	3973	4027	4080	4133	4186		
55	4240	4293	4346	4399	4453	4506	4559	4612	4666	4719		
56	4772	4825	4879	4932	4985	5038	5092	5145	5198	5251		
57	5305	5358	5411	5464	5518	5571	5624	5677	5731	5784		
58	5837	5890	5943	5997	6050	6103	6156	6210	6263	6316		
59	6369	6423	6476	6529	6582	6635	6689	6742	6795	6848		
8160	6902	6955	7008	7061	7114	7168	7221	7274	7327	7381		53
61	7434	7487	7540	7593	7647	7700	7753	7806	7859	7913		1—5
62	7966	8019	8072	8126	8179	8232	8285	8338	8392	8445		2—11
63	8498	8551	8604	8658	8711	8764	8817	8870	8924	8977		3—16
64	9030	9083	9136	9190	9243	9296	9349	9402	9456	9509		4—21
65	9562	9615	9668	9721	9775	9828	9881	9934	9987	0041		5—26
66	0094	0147	0200	0253	0306	0360	0413	0466	0519	0572		6—32
67	0626	0679	0732	0785	0837	0891	0945	0998	1051	1104		7—37
68	1157	1210	1264	1317	1370	1423	1476	1529	1583	1636		8—42
69	1689	1742	1795	1848	1902	1955	2008	2061	2114	2167		9—48
8170	2221	2274	2327	2380	2433	2486	2539	2593	2646	2699		
71	2752	2805	2858	2912	2965	3018	3071	3124	3177	3230		
72	3284	3337	3390	3443	3496	3549	3602	3656	3709	3762		
73	3815	3868	3921	3974	4028	4081	4134	4187	4240	4293		
74	4346	4399	4453	4506	4559	4612	4665	4718	4771	4824		
75	4878	4931	4984	5037	5090	5143	5196	5249	5303	5356		
76	5409	5462	5515	5568	5621	5674	5728	5781	5834	5887		
77	5940	5993	6046	6099	6152	6206	6259	6312	6365	6418		
78	6471	6524	6577	6630	6683	6737	6790	6843	6896	6949		
79	7002	7055	7108	7161	7214	7268	7321	7374	7427	7480		
8180	7533	7586	7639	7692	7745	7798	7852	7905	7958	8011		52
81	8064	8117	8170	8223	8276	8329	8382	8436	8489	8542		1—5
82	8595	8648	8701	8754	8807	8860	8913	8966	9019	9072		2—10
83	9126	9179	9232	9285	9338	9391	9444	9497	9550	9603		3—16
84	9656	9709	9762	9815	9868	9922	9975	0028	0081	0134		4—21
85	0187	0240	0293	0346	0399	0452	0505	0558	0611	0664		5—26
86	0717	0770	0824	0877	0930	0983	1036	1089	1142	1195		6—31
87	1248	1301	1354	1407	1460	1513	1566	1619	1672	1725		7—36
88	1778	1831	1884	1937	1990	2044	2097	2150	2203	2256		8—42
89	2309	2362	2415	2468	2521	2574	2627	2680	2733	2786		9—47
8190	2839	2892	2945	2998	3051	3104	3157	3210	3263	3316		
91	3369	3422	3475	3528	3581	3634	3687	3740	3793	3846		
92	3899	3952	4005	4058	4111	4165	4218	4271	4324	4377		
93	4430	4483	4536	4589	4642	4695	4748	4801	4854	4907		
94	4960	5013	5066	5119	5172	5225	5278	5331	5384	5437	53	
95	5490	5543	5596	5649	5702	5755	5808	5861	5914	5967		
96	6019	6072	6125	6178	6231	6284	6337	6390	6443	6496		
97	6549	6602	6655	6708	6761	6814	6867	6920	6973	7026		
98	7079	7132	7185	7238	7291	7344	7397	7450	7503	7556		
99	7609	7662	7715	7768	7821	7874	7927	7980	8033	8086		
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8200	913	8139	8191	8244	8297	8350	8403	8456	8509	8562	8615	
01		8668	8721	8774	8827	8880	8933	8986	9039	9092	9145	
02		9198	9251	9304	9356	9409	9462	9515	9568	9621	9674	
03		9727	9780	9833	9886	9939	9992	0045	0098	0151	0204	
04	914	0257	0309	0362	0415	0468	0521	0574	0627	0680	0733	
05		0786	0839	0892	0945	0998	1051	1103	1156	1209	1262	
06		1315	1368	1421	1474	1527	1580	1633	1686	1738	1791	
07		1844	1897	1950	2003	2056	2109	2162	2215	2268	2321	
08		2373	2426	2479	2532	2585	2638	2691	2744	2797	2850	
09		2903	2955	3008	3061	3114	3167	3220	3273	3326	3379	
8210		3432	3484	3537	3590	3643	3696	3749	3802	3855	3908	53
11		3961	4013	4066	4119	4172	4225	4278	4331	4384	4437	1—5
12		4489	4542	4595	4648	4701	4754	4807	4860	4912	4965	2—11
13		5018	5071	5124	5177	5230	5283	5335	5388	5441	5494	3—16
14		5547	5600	5653	5706	5758	5811	5864	5917	5970	6023	4—21
15		6076	6129	6181	6234	6287	6340	6393	6446	6499	6551	5—26
16		6604	6657	6710	6763	6816	6869	6921	6974	7027	7080	6—32
17		7133	7186	7239	7291	7344	7397	7450	7503	7556	7609	7—37
18		7661	7714	7767	7820	7873	7926	7978	8031	8084	8137	8—42
19		8190	8243	8295	8348	8401	8454	8507	8560	8613	8665	9—48
8220		8718	8771	8824	8877	8930	8982	9035	9088	9141	9194	
21		9246	9299	9352	9405	9458	9511	9563	9616	9669	9722	
22		9775	9828	9880	9933	9986	0039	0092	0144	0197	0250	
23	915	0303	0356	0409	0461	0514	0567	0620	0673	0725	0778	
24		0831	0884	0937	0989	1042	1095	1148	1201	1253	1306	
25		1359	1412	1465	1518	1570	1623	1676	1729	1781	1834	
26		1887	1940	1993	2045	2098	2151	2204	2257	2309	2362	
27		2415	2468	2521	2573	2626	2679	2732	2784	2837	2890	
28		2943	2996	3048	3101	3154	3207	3260	3312	3365	3418	
29		3471	3523	3576	3629	3682	3734	3787	3840	3893	3946	
8230		3998	4051	4104	4157	4209	4262	4315	4368	4420	4473	52
31		4526	4579	4632	4684	4737	4790	4843	4895	4948	5001	1—5
32		5054	5106	5159	5212	5265	5317	5370	5423	5476	5528	2—10
33		5581	5634	5687	5739	5792	5845	5898	5950	6003	6056	3—16
34		6109	6161	6214	6267	6320	6372	6425	6478	6531	6583	4—21
35		6636	6689	6742	6794	6847	6900	6952	7005	7058	7111	5—26
36		7163	7216	7269	7322	7374	7427	7480	7532	7585	7638	6—31
37		7691	7743	7796	7849	7902	7954	8007	8060	8112	8165	7—36
38		8218	8271	8323	8376	8429	8481	8534	8587	8640	8692	8—42
39		8745	8798	8850	8903	8956	9009	9061	9114	9167	9219	9—47
8240		9272	9325	9378	9430	9483	9536	9588	9641	9694	9746	
41		9799	9852	9905	9957	0010	0063	0115	0168	0221	0273	
42	916	0326	0379	0431	0484	0537	0590	0642	0695	0748	0800	
43		0853	0906	0958	1011	1064	1116	1169	1222	1274	1327	
44		1380	1433	1485	1538	1591	1643	1696	1749	1801	1854	
45		1907	1959	2012	2065	2117	2170	2223	2275	2328	2381	
46		2433	2486	2539	2591	2644	2697	2749	2802	2855	2907	
47		2960	3013	3065	3118	3171	3223	3276	3329	3381	3434	
48		3487	3539	3592	3644	3697	3750	3802	3855	3908	3960	
49		4013	4066	4118	4171	4224	4276	4329	4382	4434	4487	
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8250	916	4539	4592	4645	4697	4750	4803	4855	4908	4961	5013	
51		5066	5119	5171	5224	5276	5329	5382	5434	5487	5540	
52		5592	5645	5697	5750	5803	5855	5908	5961	6013	6066	
53		6118	6171	6224	6276	6329	6382	6434	6487	6539	6592	
54		6645	6697	6750	6802	6855	6908	6960	7013	7066	7118	
55		7171	7223	7276	7329	7381	7434	7486	7539	7592	7644	
56		7697	7749	7802	7855	7907	7960	8012	8065	8118	8170	
57		8223	8275	8328	8381	8433	8486	8538	8591	8644	8696	
58		8749	8801	8854	8907	8959	9012	9064	9117	9169	9222	
59		9275	9327	9380	9432	9485	9538	9590	9643	9695	9748	
8260		9800	9853	9906	9958	0011	0063	0116	0169	0221	0274	53
61	917	0326	0379	0431	0484	0537	0589	0642	0694	0747	0799	1-5
62		0852	0904	0957	1010	1062	1115	1167	1220	1272	1325	2-11
63		1378	1430	1483	1535	1588	1640	1693	1745	1798	1851	3-16
64		1903	1955	2008	2061	2113	2166	2218	2271	2323	2376	4-21
65		2429	2481	2534	2586	2639	2691	2744	2796	2849	2901	5-26
66		2954	3007	3059	3112	3164	3217	3269	3322	3374	3427	6-32
67		3479	3532	3584	3637	3690	3742	3795	3847	3900	3952	7-37
68		4005	4057	4110	4162	4215	4267	4320	4372	4425	4477	8-42
69		4530	4582	4635	4687	4740	4793	4845	4898	4950	5003	9-48
8270		5055	5108	5160	5213	5265	5318	5370	5423	5475	5528	
71		5580	5633	5685	5738	5790	5843	5895	5948	6000	6053	
72		6105	6158	6210	6263	6315	6368	6420	6473	6525	6578	
73		6630	6683	6735	6788	6840	6893	6945	6998	7050	7103	
74		7155	7208	7260	7313	7365	7418	7470	7523	7575	7628	
75		7680	7733	7785	7837	7890	7942	7995	8047	8100	8152	
76		8205	8257	8310	8362	8415	8467	8520	8572	8625	8677	
77		8730	8782	8834	8887	8939	8992	9044	9097	9149	9202	
78		9254	9307	9359	9412	9464	9517	9569	9621	9674	9726	
79		9779	9831	9884	9936	9989	0041	0094	0146	0198	0251	
8280	918	0303	0356	0408	0461	0513	0566	0618	0671	0723	0775	52
81		0828	0880	0933	0985	1038	1090	1143	1195	1247	1300	1-5
82		1352	1405	1457	1510	1562	1614	1667	1719	1772	1824	2-10
83		1877	1929	1981	2034	2086	2139	2191	2244	2296	2348	3-16
84		2401	2453	2506	2558	2611	2663	2715	2768	2820	2873	4-21
85		2925	2978	3030	3082	3135	3187	3240	3292	3344	3397	5-26
86		3449	3502	3554	3607	3659	3711	3764	3816	3869	3921	6-31
87		3973	4026	4078	4131	4183	4235	4288	4340	4393	4445	7-36
88		4497	4550	4602	4655	4707	4759	4812	4864	4917	4969	8-42
89		5021	5074	5126	5179	5231	5283	5336	5388	5441	5493	9-47
8290		5545	5598	5650	5702	5755	5807	5860	5912	5964	6017	
91		6069	6122	6174	6226	6279	6331	6383	6436	6488	6541	
92		6593	6645	6698	6750	6802	6855	6907	6960	7012	7064	
93		7117	7169	7221	7274	7326	7378	7431	7483	7536	7588	
94		7640	7693	7745	7797	7850	7902	7954	8007	8059	8112	
95		8164	8216	8269	8321	8373	8426	8478	8530	8583	8635	
96		8687	8740	8792	8844	8897	8949	9002	9054	9106	9159	
97		9211	9263	9316	9368	9420	9473	9525	9577	9630	9682	
98		9734	9787	9839	9891	9944	9996	0048	0101	0153	0205	
99	919	0258	0310	0362	0415	0467	0519	0572	0624	0676	0728	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8300	190781	0833	0886	0938	0990	1043	1095	1147	1200	1252		
01	1304	1356	1409	1461	1513	1566	1618	1670	1723	1775		
02	1827	1880	1932	1984	2037	2089	2141	2193	2246	2298		
03	2350	2403	2455	2507	2560	2612	2664	2717	2769	2821		
04	2873	2926	2978	3030	3083	3135	3187	3239	3292	3344		
05	3396	3449	3501	3553	3606	3658	3710	3762	3815	3867		
06	3919	3972	4024	4076	4128	4181	4233	4285	4338	4390		
07	4442	4494	4547	4599	4651	4703	4756	4808	4860	4913		
08	4965	5017	5069	5122	5174	5226	5279	5331	5383	5435		
09	5488	5540	5592	5644	5697	5749	5801	5853	5906	5958		
8310	6010	6062	6115	6167	6219	6272	6324	6376	6428	6481		53
11	6533	6585	6637	6690	6742	6794	6846	6899	6951	7003		1-5
12	7055	7108	7160	7212	7264	7317	7369	7421	7473	7526		2-11
13	7578	7630	7682	7735	7787	7839	7891	7943	7996	8048		3-16
14	8100	8152	8205	8257	8309	8361	8414	8466	8518	8570		4-21
15	8623	8675	8727	8779	8831	8884	8936	8988	9040	9093		5-26
16	9145	9197	9249	9301	9354	9406	9458	9510	9563	9615		6-32
17	9667	9719	9771	9824	9876	9928	9980	0033	0085	0137		7-37
18	9201	8902	4103	0346	0398	0450	0502	0555	0607	0659		8-42
19	0711	0763	0816	0868	0920	0972	1024	1077	1129	1181		9-48
8320	1233	1285	1338	1390	1442	1494	1546	1599	1651	1703		
21	1755	1807	1860	1912	1964	2016	2068	2121	2173	2225		
22	2277	2329	2381	2434	2486	2538	2590	2642	2695	2747		
23	2799	2851	2903	2955	3008	3060	3112	3164	3216	3269		
24	3321	3373	3425	3477	3529	3582	3634	3686	3738	3790		
25	3842	3895	3947	3999	4051	4103	4155	4208	4260	4312		
26	4364	4416	4468	4521	4573	4625	4677	4729	4781	4833		
27	4886	4938	4990	5042	5094	5146	5199	5251	5303	5355		
28	5407	5459	5511	5564	5616	5668	5720	5772	5824	5876		
29	5929	5981	6033	6085	6137	6189	6241	6294	6346	6398		
8330	6450	6502	6554	6606	6659	6711	6763	6815	6867	6919		52
31	6971	7023	7076	7128	7180	7232	7284	7336	7388	7440		1-5
32	7493	7545	7597	7649	7701	7753	7805	7857	7910	7962		2-10
33	8014	8066	8118	8170	8222	8274	8327	8379	8431	8483		3-16
34	8535	8587	8639	8691	8743	8796	8848	8900	8952	9004		4-21
35	9056	9108	9160	9212	9264	9317	9369	9421	9473	9525		5-26
36	9577	9629	9681	9733	9785	9838	9890	9942	9994	0046		6-31
37	9210	0098	0150	0202	0254	0306	0358	0411	0463	0515		7-36
38	0619	0671	0723	0775	0827	0879	0931	0983	1036	1088		8-42
39	1140	1192	1244	1296	1348	1400	1452	1504	1556	1608		9-47
8340	1661	1713	1765	1817	1869	1921	1973	2025	2077	2129		
41	2181	2233	2285	2337	2389	2442	2494	2546	2598	2650		
42	2702	2754	2806	2858	2910	2962	3014	3066	3118	3170		
43	3222	3274	3327	3379	3431	3483	3535	3587	3639	3691		
44	3743	3795	3847	3899	3951	4003	4055	4107	4159	4211		
45	4263	4315	4367	4420	4472	4524	4576	4628	4680	4732		
46	4784	4836	4888	4940	4992	5044	5096	5148	5200	5252		
47	5304	5356	5408	5460	5512	5564	5616	5668	5720	5772		
48	5824	5876	5928	5980	6032	6085	6137	6189	6241	6293		
49	6345	6397	6449	6501	6553	6605	6657	6709	6761	6813		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
6350	921	6865	6917	6969	7021	7073	7125	7177	7229	7281	7333	52
51		7385	7437	7489	7541	7593	7645	7697	7749	7801	7853	
52		7905	7957	8009	8061	8113	8165	8217	8269	8321	8373	
53		8425	8477	8529	8581	8633	8685	8737	8789	8841	8893	
54		8945	8997	9049	9101	9153	9205	9257	9309	9361	9413	
55		9465	9517	9569	9621	9672	9724	9776	9828	9880	9932	
56		9984	0036	0088	0140	0192	0244	0296	0348	0400	0452	
57	922	0504	0556	0608	0660	0712	0764	0816	0868	0920	0972	
58		1024	1076	1128	1180	1232	1283	1335	1387	1439	1491	
59		1543	1595	1647	1699	1751	1803	1855	1907	1959	2011	
8360		2063	2115	2167	2219	2271	2323	2374	2426	2478	2530	52
61		2582	2634	2686	2738	2790	2842	2894	2946	2998	3050	1-5
62		3102	3154	3206	3257	3309	3361	3413	3465	3517	3569	2-10
63		3621	3673	3725	3777	3829	3881	3933	3984	4036	4088	3-16
64		4140	4192	4244	4296	4348	4400	4452	4504	4556	4608	4-21
65		4659	4711	4763	4815	4867	4919	4971	5023	5075	5127	5-26
66		5179	5231	5282	5334	5386	5438	5490	5542	5594	5646	6-31
67		5698	5750	5801	5853	5905	5957	6009	6061	6113	6165	7-36
68		6217	6269	6321	6372	6424	6476	6528	6580	6632	6684	8-42
69		6736	6788	6839	6891	6943	6995	7047	7099	7151	7203	9-47
8370		7255	7306	7358	7410	7462	7514	7566	7618	7670	7722	51
71		7773	7825	7877	7929	7981	8033	8085	8137	8188	8240	
72		8292	8344	8396	8448	8500	8552	8603	8655	8707	8759	
73		8811	8863	8915	8967	9018	9070	9122	9174	9226	9278	
74		9330	9381	9433	9485	9537	9589	9641	9693	9744	9796	
75		9848	9900	9952	0004	0056	0107	0159	0211	0263	0315	
76	923	0367	0419	0470	0522	0574	0626	0678	0730	0781	0833	
77		0885	0937	0989	1041	1093	1144	1196	1248	1300	1352	
78		1404	1455	1507	1559	1611	1663	1715	1766	1818	1870	
79		1922	1974	2026	2077	2129	2181	2233	2285	2337	2388	
8380		2440	2492	2544	2596	2647	2699	2751	2803	2855	2907	51
81		2958	3010	3062	3114	3166	3217	3269	3321	3373	3425	1-5
82		3477	3528	3580	3632	3684	3736	3787	3839	3891	3943	2-10
83		3995	4046	4098	4150	4202	4254	4305	4357	4409	4461	3-15
84		4513	4564	4616	4668	4720	4772	4823	4875	4927	4979	4-20
85		5031	5082	5134	5186	5238	5290	5341	5393	5445	5497	5-25
86		5549	5600	5652	5704	5756	5808	5859	5911	5963	6015	6-31
87		6066	6118	6170	6222	6274	6325	6377	6429	6481	6532	7-36
88		6584	6636	6688	6740	6791	6843	6895	6947	6999	7050	8-41
89		7102	7154	7205	7257	7309	7361	7413	7464	7516	7568	9-46
8390		7620	7671	7723	7775	7827	7878	7930	7982	8034	8085	50
91		8137	8189	8241	8292	8344	8396	8448	8499	8551	8603	
92		8655	8707	8758	8810	8862	8913	8965	9017	9069	9120	
93		9172	9224	9276	9327	9379	9431	9483	9534	9586	9638	
94		9690	9741	9793	9845	9897	9948	0000	0052	0104	0155	
95	924	0207	0259	0310	0362	0414	0466	0517	0569	0621	0673	
96		0724	0776	0828	0879	0931	0983	1035	1086	1138	1190	
97		1242	1293	1345	1397	1448	1500	1552	1604	1655	1707	
98		1759	1810	1862	1914	1966	2017	2069	2121	2172	2224	
99		2276	2328	2379	2431	2483	2534	2586	2638	2689	2741	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 84000 L. 924

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8400	924	2793	2845	2896	2948	3000	3051	3103	3155	3206	3258	
01		3310	3362	3413	3465	3517	3568	3620	3672	3723	3775	
02		3827	3878	3930	3982	4034	4085	4137	4189	4240	4292	
03		4344	4395	4447	4499	4550	4602	4654	4705	4757	4809	
04		4860	4912	4964	5015	5067	5119	5170	5222	5274	5326	
05		5377	5429	5481	5532	5584	5636	5687	5739	5791	5842	
06		5894	5946	5997	6049	6101	6152	6204	6255	6307	6359	
07		6410	6462	6514	6565	6617	6669	6720	6772	6824	6875	
08		6927	6979	7030	7082	7134	7185	7237	7289	7340	7392	
09		7444	7495	7547	7598	7650	7702	7753	7805	7857	7908	
8410		7960	8012	8063	8115	8167	8218	8270	8321	8373	8425	52
11		8476	8528	8580	8631	8683	8734	8786	8838	8889	8941	1—5
12		8993	9044	9096	9148	9199	9251	9302	9354	9406	9457	2—10
13		9509	9561	9612	9664	9715	9767	9819	9870	9922	9973	3—16
14	925	0025	0077	0128	0180	0232	0283	0335	0386	0438	0490	4—21
15		0541	0593	0644	0696	0748	0799	0851	0902	0954	1006	5—26
16		1057	1109	1160	1212	1264	1315	1367	1418	1470	1522	6—32
17		1573	1625	1676	1728	1780	1831	1883	1934	1986	2038	7—36
18		2089	2141	2192	2244	2296	2347	2399	2450	2502	2554	8—42
19		2605	2657	2708	2760	2811	2863	2915	2966	3018	3069	9—47
8420		3121	3172	3224	3276	3327	3379	3430	3482	3534	3585	
21		3637	3688	3740	3791	3843	3895	3946	3998	4049	4101	
22		4152	4204	4256	4307	4359	4410	4462	4513	4565	4616	
23		4668	4720	4771	4823	4874	4926	4977	5029	5080	5132	
24		5184	5235	5287	5338	5390	5441	5493	5544	5596	5648	
25		5699	5751	5802	5854	5905	5957	6008	6060	6111	6163	
26		6215	6266	6318	6369	6421	6472	6524	6575	6627	6678	
27		6730	6781	6833	6885	6936	6988	7039	7091	7142	7194	
28		7245	7297	7348	7400	7451	7503	7554	7606	7657	7709	
29		7761	7812	7864	7915	7967	8018	8070	8121	8173	8224	
8430		8276	8327	8379	8430	8482	8533	8585	8636	8688	8739	51
31		8791	8842	8894	8945	8997	9048	9100	9151	9203	9254	1—5
32		9306	9357	9409	9460	9512	9563	9615	9667	9718	9770	2—10
33		9821	9873	9924	9975	0027	0078	0130	0181	0233	0284	3—15
34	926	0336	0387	0439	0490	0542	0593	0645	0696	0748	0799	4—20
35		0851	0902	0954	1005	1057	1108	1160	1211	1263	1314	5—25
36		1366	1417	1469	1520	1572	1623	1675	1726	1778	1829	6—31
37		1880	1932	1983	2035	2086	2138	2189	2241	2292	2344	7—36
38		2395	2447	2498	2550	2601	2653	2704	2755	2807	2858	8—41
39		2910	2961	3013	3064	3116	3167	3219	3270	3322	3373	9—46
8440		3476	3527	3579	3630	3682	3733	3785	3836	3888		
41		3939	3990	4042	4093	4145	4196	4248	4299	4351	4402	
42		4453	4505	4556	4608	4659	4711	4762	4814	4865	4916	
43		4968	5019	5071	5122	5174	5225	5277	5328	5379	5431	
44		5482	5534	5585	5637	5688	5739	5791	5842	5894	5945	
45		5997	6048	6099	6151	6202	6254	6305	6357	6408	6459	
46		6511	6562	6614	6665	6716	6768	6819	6871	6922	6974	
47		7025	7076	7128	7179	7231	7282	7333	7385	7436	7488	
48		7539	7590	7642	7693	7745	7796	7847	7899	7950	8002	
49		8053	8105	8156	8207	8259	8310	8362	8413	8464	8516	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 84500 L.926

Num	0	1	2	3	4	5	6	7	8	9	D	Pts
8450	9268567	8618	8670	8721	8773	8824	8875	8927	8978	9030		
51	9081	9132	9184	9235	9287	9338	9389	9441	9492	9543		
52	9595	9646	9698	9749	9800	9852	9903	9955	0006	0057		
53	9270109	0160	0211	0263	0314	0366	0417	0468	0520	0571		
54	0622	0674	0725	0777	0828	0879	0931	0982	1033	1085		
55	1136	1187	1239	1290	1342	1393	1444	1496	1547	1598		
56	1650	1701	1752	1804	1855	1907	1958	2009	2061	2112		
57	2163	2215	2266	2317	2369	2420	2471	2523	2574	2625		
58	2677	2728	2780	2831	2882	2934	2985	3036	3088	3139		
59	3190	3242	3293	3344	3396	3447	3498	3550	3601	3652		
8460	3704	3755	3806	3858	3909	3960	4012	4063	4114	4166		
61	4217	4268	4320	4371	4422	4474	4525	4576	4628	4679		52
62	4730	4782	4833	4884	4935	4987	5038	5089	5141	5192		1-5
63	5243	5295	5346	5397	5449	5500	5551	5603	5654	5705		2-10
64	5757	5808	5859	5910	5962	6013	6064	6116	6167	6218		3-16
65	6270	6321	6372	6424	6475	6526	6577	6629	6680	6731		4-21
66	6783	6834	6885	6937	6988	7039	7090	7142	7193	7244		5-26
67	7296	7347	7398	7449	7501	7552	7603	7655	7706	7757		6-31
68	7808	7860	7911	7962	8014	8065	8116	8167	8219	8270		7-36
69	8321	8373	8424	8475	8526	8578	8629	8680	8732	8783		8-42
8470	8834	8885	8937	8988	9039	9090	9142	9193	9244	9296		9-47
71	9347	9398	9449	9501	9552	9603	9654	9706	9757	9808		
72	9859	9911	9962	0013	0065	0116	0167	0218	0270	0321		
73	9280372	0423	0475	0526	0577	0628	0680	0731	0782	0833		
74	0885	0936	0987	1038	1090	1141	1192	1243	1295	1346		
75	1397	1448	1500	1551	1602	1653	1705	1756	1807	1858		
76	1909	1961	2012	2063	2114	2166	2217	2268	2319	2371		
77	2422	2473	2524	2576	2627	2678	2729	2780	2832	2883		
78	2934	2985	3037	3088	3139	3190	3241	3293	3344	3395		
79	3446	3498	3549	3600	3651	3702	3754	3805	3856	3907		
8480	3959	4010	4061	4112	4163	4215	4266	4317	4368	4419		51
81	4471	4522	4573	4624	4675	4727	4778	4829	4880	4931		1-5
82	4983	5034	5085	5136	5187	5239	5290	5341	5392	5443		2-10
83	5495	5546	5597	5648	5699	5751	5802	5853	5904	5955		3-15
84	6007	6058	6109	6160	6211	6263	6314	6365	6416	6467		4-20
85	6518	6570	6621	6672	6723	6774	6826	6877	6928	6979		5-25
86	7030	7081	7133	7184	7235	7286	7337	7389	7440	7491		6-31
87	7542	7593	7644	7696	7747	7798	7849	7900	7951	8003		7-36
88	8054	8105	8156	8207	8258	8310	8361	8412	8463	8514		8-41
89	8565	8616	8668	8719	8770	8821	8872	8923	8975	9026		9-46
8490	9077	9128	9179	9230	9282	9333	9384	9435	9486	9537		
91	9588	9640	9691	9742	9793	9844	9895	9946	9998	0049		
92	9290100	0151	0202	0253	0304	0356	0407	0458	0509	0560		
93	0611	0662	0714	0765	0816	0867	0918	0969	1020	1071		
94	1123	1174	1225	1276	1327	1378	1429	1480	1532	1583		
95	1634	1685	1736	1787	1838	1889	1941	1992	2043	2094		
96	2145	2196	2247	2298	2350	2401	2452	2503	2554	2605		
97	2656	2707	2758	2810	2861	2912	2963	3014	3065	3116		
98	3167	3218	3269	3321	3372	3423	3474	3525	3576	3627		
99	3678	3729	3780	3832	3883	3934	3985	4036	4087	4138		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

	0	1	2	3	4	5	6	7	8	9	D	Pts.
3500	294189	4240	4291	4343	4394	4445	4496	4547	4598	4649		
01	4700	4751	4802	4853	4905	4956	5007	5058	5109	5160		
02	5211	5262	5313	5364	5415	5466	5517	5569	5620	5671		
03	5722	5773	5824	5875	5926	5977	6028	6079	6130	6181		
04	6233	6284	6335	6386	6437	6488	6539	6590	6641	6692		
05	6743	6794	6845	6896	6947	6998	7050	7101	7152	7203		
06	7254	7305	7356	7407	7458	7509	7560	7611	7662	7713		
07	7764	7815	7866	7917	7969	8020	8071	8122	8173	8224		
08	8275	8326	8377	8428	8479	8530	8581	8632	8683	8734		
09	8785	8836	8887	8938	8989	9040	9091	9142	9193	9245		
8510	9296	9347	9398	9449	9500	9551	9602	9653	9704	9755		52
11	9806	9857	9908	9959	0010	0061	0112	0163	0214	0265		1-5
12	9300	0315	0367	0418	0469	0520	0571	0622	0673	0724		2-10
13	0826	0877	0928	0979	1030	1081	1132	1183	1234	1285		3-16
14	1336	1387	1438	1489	1540	1591	1643	1694	1745	1796		4-21
15	1847	1898	1949	2000	2051	2102	2153	2204	2255	2306	51	5-26
16	2357	2408	2459	2510	2561	2612	2663	2713	2764	2815		6-31
17	2866	2917	2968	3019	3070	3121	3172	3223	3274	3325		7-36
18	3376	3427	3478	3529	3580	3631	3682	3733	3784	3835		8-42
19	3886	3937	3988	4039	4090	4141	4192	4243	4294	4345		9-47
8520	4396	4447	4498	4549	4600	4651	4702	4753	4804	4855		
21	4906	4957	5008	5059	5110	5160	5211	5262	5313	5364		
22	5415	5466	5517	5568	5619	5670	5721	5772	5823	5874		
23	5925	5976	6027	6078	6129	6180	6231	6282	6333	6383		
24	6434	6485	6536	6587	6638	6689	6740	6791	6842	6893		
25	6944	6995	7046	7097	7148	7199	7250	7300	7351	7402		
26	7453	7504	7555	7606	7657	7708	7759	7810	7861	7912		
27	7963	8014	8064	8115	8166	8217	8268	8319	8370	8421		
28	8472	8523	8574	8625	8676	8727	8777	8828	8879	8930		
29	8981	9032	9083	9134	9185	9236	9287	9338	9388	9439		
8530	9490	9541	9592	9643	9694	9745	9796	9847	9898	9949		51
31	9999	0050	0101	0152	0203	0254	0305	0356	0407	0458		1-5
32	9310	0508	0559	0610	0661	0712	0763	0814	0865	0916		2-10
33	1017	1068	1119	1170	1221	1272	1323	1374	1425	1475		3-15
34	1526	1577	1628	1679	1730	1781	1832	1883	1933	1984		4-20
35	2035	2086	2137	2188	2239	2290	2341	2391	2442	2493		5-25
36	2544	2595	2646	2697	2748	2798	2849	2900	2951	3002		6-31
37	3053	3104	3155	3205	3256	3307	3358	3409	3460	3511		7-36
38	3562	3612	3663	3714	3765	3816	3867	3918	3968	4019		8-41
39	4070	4121	4172	4223	4274	4324	4375	4426	4477	4528		9-46
8540	4579	4630	4680	4731	4782	4833	4884	4935	4986	5036		
41	5087	5138	5189	5240	5291	5341	5392	5443	5494	5545		
42	5596	5647	5697	5748	5799	5850	5901	5952	6002	6053		
43	6104	6155	6206	6257	6307	6358	6409	6460	6511	6562		
44	6612	6663	6714	6765	6816	6867	6917	6968	7019	7070		
45	7121	7171	7222	7273	7324	7375	7426	7477	7527	7578		
46	7629	7680	7731	7781	7832	7883	7934	7985	8035	8086		
47	8137	8188	8239	8289	8340	8391	8442	8493	8544	8594		
48	8645	8696	8747	8798	8848	8899	8950	9001	9052	9102		
49	9153	9204	9255	9306	9356	9407	9458	9509	9560	9610		
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 85500 L.931

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8550	9319661	9712	9763	9814	9864	9915	9966	0017	0067	0118		
51	9320169	0220	0271	0321	0372	0423	0474	0525	0575	0626		
52	0677	0728	0778	0829	0880	0931	0982	1032	1083	1134		
53	1185	1235	1286	1337	1388	1439	1489	1540	1591	1642		
54	1692	1743	1794	1845	1896	1946	1997	2048	2099	2149		
55	2200	2251	2302	2352	2403	2454	2505	2555	2606	2657		
56	2708	2759	2809	2860	2911	2962	3012	3063	3114	3165		
57	3215	3266	3317	3368	3418	3469	3520	3571	3621	3672		
58	3723	3774	3824	3875	3926	3977	4027	4078	4129	4180		
59	4230	4281	4332	4382	4433	4484	4535	4585	4636	4687		
8560	4738	4788	4839	4890	4941	4991	5042	5093	5144	5194		51
61	5245	5296	5346	5397	5448	5499	5549	5600	5651	5702		1-5
62	5752	5803	5854	5904	5955	6006	6057	6107	6158	6209		2-10
63	6259	6310	6361	6412	6462	6513	6564	6614	6665	6716		3-15
64	6767	6817	6868	6919	6969	7020	7071	7122	7172	7223		4-20
65	7274	7324	7375	7426	7476	7527	7578	7629	7679	7730		5-25
66	7781	7831	7882	7933	7983	8034	8085	8136	8186	8237		6-31
67	8288	8338	8389	8440	8490	8541	8592	8643	8693	8744		7-36
68	8795	8845	8896	8947	8997	9048	9099	9149	9200	9251		8-41
69	9301	9352	9403	9453	9504	9555	9606	9656	9707	9758		9-46
8570	9808	9859	9910	9960	0011	0062	0112	0163	0214	0264		50
71	9330315	0366	0416	0467	0518	0568	0619	0670	0720	0771		1-5
72	0822	0872	0923	0974	1024	1075	1126	1176	1227	1278		2-10
73	1328	1379	1430	1480	1531	1582	1632	1683	1733	1784		3-15
74	1835	1885	1936	1987	2037	2088	2139	2189	2240	2291		4-20
75	2341	2392	2443	2493	2544	2595	2645	2696	2746	2797		5-25
76	2848	2898	2949	3000	3050	3101	3152	3202	3253	3303		6-30
77	3354	3405	3455	3506	3557	3607	3658	3709	3759	3810		7-35
78	3860	3911	3962	4012	4063	4114	4164	4215	4265	4316		8-40
79	4367	4417	4468	4519	4569	4620	4670	4721	4772	4822		9-45
8580	4873	4923	4974	5025	5075	5126	5177	5227	5278	5328		50
81	5379	5430	5480	5531	5581	5632	5683	5733	5784	5834		1-5
82	5885	5936	5986	6037	6088	6138	6189	6239	6290	6341		2-10
83	6391	6442	6492	6543	6594	6644	6695	6745	6796	6846		3-15
84	6897	6948	6998	7049	7099	7150	7201	7251	7302	7352		4-20
85	7403	7454	7504	7555	7605	7656	7707	7757	7808	7858		5-25
86	7909	7959	8010	8061	8111	8162	8212	8263	8313	8364		6-30
87	8415	8465	8516	8566	8617	8668	8718	8769	8819	8870		7-35
88	8920	8971	9021	9072	9123	9173	9224	9274	9325	9375		8-40
89	9426	9477	9527	9578	9628	9679	9729	9780	9831	9881		9-45
8590	9932	9982	0033	0083	0134	0184	0235	0286	0336	0387		
91	9340437	0488	0538	0589	0639	0690	0740	0791	0842	0892		
92	0943	0993	1044	1094	1145	1195	1246	1296	1347	1398		
93	1448	1499	1549	1600	1650	1701	1751	1802	1852	1903		
94	1953	2004	2055	2105	2156	2206	2257	2307	2358	2408		
95	2459	2509	2560	2610	2661	2711	2762	2812	2863	2914		
96	2964	3015	3065	3116	3166	3217	3267	3318	3368	3419		
97	3469	3520	3570	3621	3671	3722	3772	3823	3873	3924		
98	3974	4025	4075	4126	4176	4227	4277	4328	4378	4429		
99	4479	4530	4580	4631	4682	4732	4783	4833	4884	4934		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

Num.	0	1	2	3	4	5	6	7	8	9	D	Pta.
86000	934 4985	5035	5086	5136	5187	5237	5287	5338	5388	5439		
01	5489	5540	5590	5641	5691	5742	5792	5843	5893	5944		
02	5994	6045	6095	6146	6196	6247	6297	6348	6398	6449		
03	6499	6550	6600	6651	6701	6752	6802	6853	6903	6954		
04	7004	7054	7105	7155	7206	7256	7307	7357	7408	7458		
05	7509	7559	7610	7660	7711	7761	7812	7862	7912	7963		
06	8013	8064	8114	8165	8215	8266	8316	8367	8417	8468		
07	8518	8568	8619	8669	8720	8770	8821	8871	8922	8972		
08	9023	9073	9123	9174	9224	9275	9325	9376	9426	9477		
09	9527	9578	9628	9678	9729	9779	9830	9880	9931	9981		
8610	935 0032	0082	0132	0183	0233	0284	0334	0385	0435	0485		51
11	0536	0586	0637	0687	0738	0788	0838	0889	0939	0990		1-5
12	1040	1091	1141	1191	1242	1292	1343	1393	1444	1494		2-10
13	1544	1595	1645	1696	1746	1797	1847	1897	1948	1998		3-15
14	2049	2099	2150	2200	2250	2301	2351	2402	2452	2502		4-20
15	2553	2603	2654	2704	2754	2805	2855	2906	2956	3006		5-25
16	3057	3107	3158	3208	3259	3309	3359	3410	3460	3511		6-31
17	3561	3611	3662	3712	3763	3813	3863	3914	3964	4015		7-36
18	4065	4115	4166	4216	4266	4317	4367	4418	4468	4518		8-41
19	4569	4619	4670	4720	4770	4821	4871	4922	4972	5022		9-46
8620	5073	5123	5173	5224	5274	5325	5375	5425	5476	5526		
21	5576	5627	5677	5728	5778	5828	5879	5929	5979	6030		
22	6080	6131	6181	6231	6282	6332	6382	6433	6483	6533		
23	6584	6634	6685	6735	6785	6836	6886	6936	6987	7037		
24	7087	7138	7188	7239	7289	7339	7390	7440	7490	7541		
25	7591	7641	7692	7742	7792	7843	7893	7943	7994	8044		
26	8095	8145	8195	8246	8296	8346	8397	8447	8497	8548		
27	8598	8648	8699	8749	8799	8850	8900	8950	9001	9051		
28	9101	9152	9202	9252	9303	9353	9403	9454	9504	9554		
29	9605	9655	9705	9756	9806	9856	9907	9957	0007	0058		
8630	936 0108	0158	0209	0259	0309	0360	0410	0460	0511	0561		50
31	0611	0661	0712	0762	0812	0863	0913	0963	1014	1064		1-5
32	1114	1165	1215	1265	1316	1366	1416	1466	1517	1567		2-10
33	1617	1668	1718	1768	1819	1869	1919	1970	2020	2070		3-15
34	2120	2171	2221	2271	2322	2372	2422	2473	2523	2573		4-20
35	2623	2674	2724	2774	2825	2875	2925	2975	3026	3076		5-25
36	3126	3177	3227	3277	3327	3378	3428	3478	3529	3579		6-30
37	3629	3679	3730	3780	3830	3881	3931	3981	4031	4082		7-35
38	4132	4182	4233	4283	4333	4383	4434	4484	4534	4584		8-40
39	4635	4685	4735	4786	4836	4886	4936	4987	5037	5087		9-45
8640	5137	5188	5238	5288	5338	5389	5439	5489	5540	5590		
41	5640	5690	5741	5791	5841	5891	5942	5992	6042	6092		
42	6143	6193	6243	6293	6344	6394	6444	6494	6545	6595		
43	6645	6695	6746	6796	6846	6896	6947	6997	7047	7097		
44	7148	7198	7248	7298	7349	7399	7449	7499	7550	7600		
45	7650	7700	7750	7801	7851	7901	7951	8002	8052	8102		
46	8152	8203	8253	8303	8353	8403	8454	8504	8554	8604		
47	8655	8705	8755	8805	8855	8906	8956	9006	9056	9107		
48	9157	9207	9257	9307	9358	9408	9458	9508	9559	9609		
49	9659	9709	9759	9810	9860	9910	9960	0010	0061	0111		

Num. 0 1 2 3 4 5 6 7 8 9 D Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pte.
8650	937	0161	0211	0261	0312	0362	0412	0462	0513	0563	0613	
51		0663	0713	0764	0814	0864	0914	0964	1015	1065	1115	
52		1165	1215	1265	1316	1366	1416	1466	1516	1567	1617	
53		1667	1717	1767	1818	1868	1918	1968	2018	2069	2119	
54		2169	2219	2269	2319	2370	2420	2470	2520	2570	2621	
55		2671	2721	2771	2821	2871	2922	2972	3022	3072	3122	
56		3172	3223	3273	3323	3373	3423	3474	3524	3574	3624	
57		3674	3724	3775	3825	3875	3925	3975	4025	4075	4126	
58		4176	4226	4276	4326	4376	4427	4477	4527	4577	4627	
59		4677	4728	4778	4828	4878	4928	4978	5028	5079	5129	
8660		5179	5229	5279	5329	5380	5430	5480	5530	5580	5630	50
61		5680	5731	5781	5831	5881	5931	5981	6031	6082	6132	1—5
62		6182	6232	6282	6332	6382	6432	6483	6533	6583	6633	2—10
63		6683	6733	6783	6834	6884	6934	6984	7034	7084	7134	3—15
64		7184	7235	7285	7335	7385	7435	7485	7535	7585	7636	4—20
65		7686	7736	7786	7836	7886	7936	7986	8036	8087	8137	5—25
66		8187	8237	8287	8337	8387	8437	8488	8538	8588	8638	6—30
67		8688	8738	8788	8838	8888	8939	8989	9039	9089	9139	7—35
68		9189	9239	9289	9339	9389	9440	9490	9540	9590	9640	8—40
69		9690	9740	9790	9840	9890	9941	9991	0041	0091	0141	9—45
8670	938	0191	0241	0291	0341	0391	0441	0492	0542	0592	0642	
71		0692	0742	0792	0842	0892	0942	0992	1042	1093	1143	
72		1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	
73		1693	1744	1794	1844	1894	1944	1994	2044	2094	2144	
74		2194	2244	2294	2344	2394	2445	2495	2545	2595	2645	
75		2695	2745	2795	2845	2895	2945	2995	3045	3095	3145	
76		3195	3245	3296	3346	3396	3446	3496	3546	3596	3646	
77		3696	3746	3796	3846	3896	3946	3996	4046	4096	4146	
78		4196	4247	4297	4347	4397	4447	4497	4547	4597	4647	
79		4697	4747	4797	4847	4897	4947	4997	5047	5097	5147	
8680		5197	5247	5297	5347	5397	5447	5497	5547	5598	5648	49
81		5698	5748	5798	5848	5898	5948	5998	6048	6098	6148	1—5
82		6198	6248	6298	6348	6398	6448	6498	6548	6598	6648	2—10
83		6698	6748	6798	6848	6898	6948	6998	7048	7098	7148	3—15
84		7198	7248	7298	7348	7398	7448	7498	7548	7598	7648	4—20
85		7698	7748	7798	7848	7898	7948	7998	8048	8098	8148	5—24
86		8198	8248	8298	8348	8398	8448	8498	8548	8598	8648	6—29
87		8698	8748	8798	8848	8898	8948	8998	9048	9098	9148	7—34
88		9198	9248	9298	9348	9398	9448	9498	9548	9598	9648	8—39
89		9698	9748	9798	9848	9898	9948	9998	0048	0098	0148	9—44
8690	939	0198	0248	0298	0348	0398	0448	0498	0548	0598	0648	
91		0697	0747	0797	0847	0897	0947	0997	1047	1097	1147	
92		1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	
93		1697	1747	1797	1847	1897	1947	1997	2046	2096	2146	
94		2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	
95		2696	2746	2796	2846	2896	2946	2996	3045	3095	3145	
96		3195	3245	3295	3345	3395	3445	3495	3545	3595	3645	
97		3695	3745	3795	3845	3894	3944	3994	4044	4094	4144	
98		4194	4244	4294	4344	4394	4444	4494	4544	4593	4643	
99		4693	4743	4793	4843	4893	4943	4993	5043	5093	5143	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pta.
8700	339	5193	5242	5292	5342	5392	5442	5492	5542	5592	5642	
01		5692	5742	5792	5841	5891	5941	5991	6041	6091	6141	
02		6191	6241	6291	6341	6390	6440	6490	6540	6590	6640	
03		6690	6740	6790	6840	6889	6939	6989	7039	7089	7139	
04		7189	7239	7289	7339	7388	7438	7488	7538	7588	7638	
05		7688	7738	7788	7837	7887	7937	7987	8037	8087	8137	
06		8187	8237	8286	8336	8386	8436	8486	8536	8586	8636	
07		8685	8735	8785	8835	8885	8935	8985	9035	9084	9134	
08		9184	9234	9284	9334	9384	9434	9483	9533	9583	9633	
09		9683	9733	9783	9833	9882	9932	9982	0032	0082	0132	
8710	940	0182	0231	0281	0331	0381	0431	0481	0531	0580	0630	
11		0680	0730	0780	0830	0880	0929	0979	1029	1079	1129	50
12		1179	1229	1278	1328	1378	1428	1478	1528	1577	1627	1—5
13		1677	1727	1777	1827	1877	1926	1976	2026	2076	2126	2—10
14		2176	2225	2275	2325	2375	2425	2475	2524	2574	2624	3—15
15		2674	2724	2774	2823	2873	2923	2973	3023	3073	3122	4—20
16		3172	3222	3272	3322	3372	3421	3471	3521	3571	3621	5—25
17		3670	3720	3770	3820	3870	3920	3969	4019	4069	4119	6—30
18		4169	4218	4268	4318	4368	4418	4468	4517	4567	4617	7—35
19		4667	4717	4766	4816	4866	4916	4966	5015	5065	5115	8—40
8720		5165	5215	5264	5314	5364	5414	5464	5513	5563	5613	9—45
21		5663	5713	5762	5812	5862	5912	5962	6011	6061	6111	
22		6161	6211	6260	6310	6360	6410	6460	6509	6559	6609	
23		6659	6709	6758	6808	6858	6908	6957	7007	7057	7107	
24		7157	7206	7256	7306	7356	7405	7455	7505	7555	7605	
25		7654	7704	7754	7804	7853	7903	7953	8003	8053	8102	
26		8152	8202	8252	8301	8351	8401	8451	8500	8550	8600	
27		8650	8700	8749	8799	8849	8899	8948	8998	9048	9098	
28		9147	9197	9247	9297	9346	9396	9446	9496	9545	9595	
29		9645	9695	9744	9794	9844	9894	9943	9993	0043	0093	
8730	941	0142	0192	0242	0292	0341	0391	0441	0491	0540	0590	49
31		0640	0690	0739	0789	0839	0889	0938	0988	1038	1088	1—5
32		1137	1187	1237	1286	1336	1386	1436	1485	1535	1585	2—10
33		1635	1684	1734	1784	1834	1883	1933	1983	2032	2082	3—15
34		2132	2182	2231	2281	2331	2380	2430	2480	2530	2579	4—20
35		2629	2679	2729	2778	2828	2878	2927	2977	3027	3077	5—24
36		3126	3176	3226	3275	3325	3375	3425	3474	3524	3574	6—29
37		3623	3673	3723	3772	3822	3872	3922	3971	4021	4071	7—34
38		4120	4170	4220	4270	4319	4369	4419	4468	4518	4568	8—39
39		4617	4667	4717	4766	4816	4866	4916	4965	5015	5065	9—44
8740		5114	5164	5214	5263	5313	5363	5412	5462	5512	5562	
41		5611	5661	5711	5760	5810	5860	5909	5959	6009	6058	
42		6108	6158	6207	6257	6307	6356	6406	6456	6505	6555	
43		6605	6654	6704	6754	6803	6853	6903	6952	7002	7052	
44		7101	7151	7201	7250	7300	7350	7399	7449	7499	7548	
45		7598	7648	7697	7747	7797	7847	7896	7946	7995	8045	
46		8095	8144	8194	8244	8293	8343	8393	8442	8492	8542	
47		8591	8641	8691	8740	8790	8840	8889	8939	8988	9038	
48		9088	9137	9187	9237	9286	9336	9386	9435	9485	9535	
49		9584	9634	9683	9733	9783	9832	9882	9932	9981	0031	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8750	9420081	0130	0180	0229	0279	0329	0378	0428	0478	0527		
51	0577	0626	0676	0726	0775	0825	0875	0924	0974	1023		
52	1073	1123	1172	1222	1272	1321	1371	1420	1470	1520		
53	1569	1619	1669	1718	1768	1817	1867	1917	1966	2016		
54	2065	2115	2165	2214	2264	2313	2363	2413	2462	2512		
55	2562	2611	2661	2710	2760	2810	2859	2909	2958	3008		
56	3058	3107	3157	3206	3256	3306	3355	3405	3454	3504		
57	3553	3603	3653	3702	3752	3801	3851	3901	3950	4000		
58	4049	4099	4149	4198	4248	4297	4347	4397	4446	4496		
59	4545	4595	4644	4694	4744	4793	4843	4892	4942	4991		
8760	5041	5091	5140	5190	5239	5289	5339	5388	5438	5487		50
61	5537	5586	5636	5686	5735	5785	5834	5884	5933	5983		1—5
62	6032	6082	6132	6181	6231	6280	6330	6379	6429	6479		2—10
63	6528	6578	6627	6677	6726	6776	6825	6875	6925	6974		3—15
64	7024	7073	7123	7172	7222	7271	7321	7371	7420	7470		4—20
65	7519	7569	7618	7668	7717	7767	7816	7866	7916	7965		5—25
66	8015	8064	8114	8163	8213	8262	8312	8361	8411	8461		6—30
67	8510	8560	8609	8659	8708	8758	8807	8857	8906	8956		7—35
68	9005	9055	9104	9154	9204	9253	9303	9352	9402	9451		8—40
69	9501	9550	9600	9649	9699	9748	9798	9847	9897	9946		9—45
8770	9996	0045	0095	0144	0194	0244	0293	0343	0392	0442		
71	9430491	0541	0590	0640	0689	0739	0788	0838	0887	0937		
72	0986	1036	1085	1135	1184	1234	1283	1333	1382	1432		
73	1481	1531	1580	1630	1679	1729	1778	1828	1877	1927		
74	1976	2026	2075	2125	2174	2224	2273	2323	2372	2422		
75	2471	2521	2570	2620	2669	2719	2768	2818	2867	2917		
76	2966	3016	3065	3115	3164	3214	3263	3313	3362	3412		
77	3461	3510	3560	3609	3659	3708	3758	3807	3857	3906		
78	3956	4005	4055	4104	4154	4203	4253	4302	4352	4401		
79	4450	4500	4549	4599	4648	4698	4747	4797	4846	4896		
8780	4945	4995	5044	5094	5143	5192	5242	5291	5341	5390		49
81	5440	5489	5539	5588	5638	5687	5737	5786	5835	5885		1—5
82	5934	5984	6033	6083	6132	6182	6231	6280	6330	6379		2—10
83	6429	6478	6528	6577	6627	6676	6725	6775	6824	6874		3—15
84	6923	6973	7022	7072	7121	7170	7220	7269	7319	7368		4—20
85	7418	7467	7517	7566	7615	7665	7714	7764	7813	7863		5—24
86	7912	7961	8011	8060	8110	8159	8209	8258	8307	8357		6—29
87	8406	8456	8505	8555	8604	8653	8703	8752	8802	8851		7—34
88	8900	8950	8999	9049	9098	9148	9197	9246	9296	9345		8—39
89	9395	9444	9493	9543	9592	9642	9691	9741	9790	9839		9—44
8790	9889	9938	9988	0037	0086	0136	0185	0235	0284	0333		
91	9440383	0432	0482	0531	0580	0630	0679	0729	0778	0827		
92	0877	0926	0976	1025	1074	1124	1173	1223	1272	1321		
93	1371	1420	1470	1519	1568	1618	1667	1716	1766	1815		
94	1865	1914	1963	2013	2062	2112	2161	2210	2260	2309		
95	2358	2408	2457	2507	2556	2605	2655	2704	2753	2803		
96	2852	2902	2951	3000	3050	3099	3148	3198	3247	3297		
97	3346	3395	3445	3494	3543	3593	3642	3691	3741	3790		
98	3840	3889	3938	3988	4037	4086	4136	4185	4234	4284		
99	4333	4383	4432	4481	4531	4580	4629	4679	4728	4777		
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Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8800	9444827	4876	4925	4975	5024	5073	5123	5172	5222	5271		
01	5320	5370	5419	5468	5518	5567	5616	5666	5715	5764		
02	5814	5863	5912	5962	6011	6060	6110	6159	6208	6258		
03	6307	6356	6406	6455	6504	6554	6603	6652	6702	6751		
04	6800	6850	6899	6948	6998	7047	7096	7146	7195	7244		
05	7294	7343	7392	7442	7491	7540	7590	7639	7688	7737		
06	7787	7836	7885	7935	7984	8033	8083	8132	8181	8231		
07	8280	8329	8379	8428	8477	8527	8576	8625	8674	8724		
08	8773	8822	8872	8921	8970	9020	9069	9118	9167	9217		
09	9266	9315	9365	9414	9463	9513	9562	9611	9660	9710		
8810	9759	9808	9858	9907	9956	0006	0055	0104	0153	0203		50
11	9450252	0301	0351	0400	0449	0498	0548	0597	0646	0696		1—5
12	0745	0794	0843	0893	0942	0991	1041	1090	1139	1188		2—10
13	1238	1287	1336	1386	1435	1484	1533	1583	1632	1681		3—15
14	1730	1780	1829	1878	1928	1977	2026	2075	2125	2174		4—20
15	2223	2272	2322	2371	2420	2469	2519	2568	2617	2667		5—25
16	2716	2765	2814	2864	2913	2962	3011	3061	3110	3159		6—30
17	3208	3258	3307	3356	3405	3455	3504	3553	3602	3652		7—35
18	3701	3750	3799	3849	3898	3947	3996	4046	4095	4144		8—40
19	4193	4243	4292	4341	4390	4440	4489	4538	4587	4637		9—45
8820	4686	4735	4784	4834	4883	4932	4981	5031	5080	5129		
21	5178	5227	5277	5326	5375	5424	5474	5523	5572	5621		
22	5671	5720	5769	5818	5867	5917	5966	6015	6064	6114		
23	6163	6212	6261	6310	6360	6409	6458	6507	6557	6606		
24	6655	6704	6753	6803	6852	6901	6950	7000	7049	7098		
25	7147	7196	7246	7295	7344	7393	7442	7492	7541	7590		
26	7639	7688	7738	7787	7836	7885	7934	7984	8033	8082		
27	8131	8180	8230	8279	8328	8377	8426	8476	8525	8574		
28	8623	8672	8722	8771	8820	8869	8918	8968	9017	9066		
29	9115	9164	9214	9263	9312	9361	9410	9459	9509	9558		
8830	9607	9656	9705	9755	9804	9853	9902	9951	0000	0050		49
31	9460099	0148	0197	0246	0296	0345	0394	0443	0492	0541		1—5
32	0591	0640	0689	0738	0787	0836	0886	0935	0984	1033		2—10
33	1082	1131	1181	1230	1279	1328	1377	1426	1476	1525		3—15
34	1574	1623	1672	1721	1771	1820	1869	1918	1967	2016		4—20
35	2066	2115	2164	2213	2262	2311	2360	2410	2459	2508		5—24
36	2557	2606	2655	2705	2754	2803	2852	2901	2950	2999		6—29
37	3049	3098	3147	3196	3245	3294	3343	3393	3442	3491		7—34
38	3540	3589	3638	3687	3737	3786	3835	3884	3933	3982		8—39
39	4031	4080	4130	4179	4228	4277	4326	4375	4424	4474		9—44
8840	4523	4572	4621	4670	4719	4768	4817	4867	4916	4965		
41	5014	5063	5112	5161	5210	5260	5309	5358	5407	5456		
42	5505	5554	5603	5652	5702	5751	5800	5849	5898	5947		
43	5996	6045	6094	6144	6193	6242	6291	6340	6389	6438		
44	6487	6536	6586	6635	6684	6733	6782	6831	6880	6929		
45	6978	7027	7077	7126	7175	7224	7273	7322	7371	7420		
46	7469	7518	7568	7617	7666	7715	7764	7813	7862	7911		
47	7960	8009	8058	8108	8157	8206	8255	8304	8353	8402		
48	8451	8500	8549	8598	8647	8697	8746	8795	8844	8893		
49	8942	8991	9040	9089	9138	9187	9236	9285	9335	9384		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
8850	946	9433	9482	9531	9580	9629	9678	9727	9776	9825	9874	
51	9923	9972	0022	0071	0120	0169	0218	0267	0316	0365		
52	947	0414	0463	0512	0561	0610	0659	0708	0757	0807	0856	
53	0905	0954	1003	1052	1101	1150	1199	1248	1297	1346		
54	1395	1444	1493	1542	1591	1640	1689	1739	1788	1837		
55	1886	1935	1984	2033	2082	2131	2180	2229	2278	2327		
56	2376	2425	2474	2523	2572	2621	2670	2719	2768	2817		
57	2866	2915	2965	3014	3063	3112	3161	3210	3259	3308		
58	3357	3406	3455	3504	3553	3602	3651	3700	3749	3798		
59	3847	3896	3945	3994	4043	4092	4141	4190	4239	4288		
8860	4337	4386	4435	4484	4533	4582	4631	4680	4729	4778		49
61	4827	4876	4925	4974	5023	5072	5121	5170	5219	5268		1-5
62	5317	5366	5415	5464	5513	5562	5611	5660	5709	5758		2-10
63	5807	5856	5905	5954	6003	6052	6101	6150	6199	6248		3-15
64	6297	6346	6395	6444	6493	6542	6591	6640	6689	6738		4-20
65	6787	6836	6885	6934	6983	7032	7081	7130	7179	7228		5-24
66	7277	7326	7375	7424	7473	7522	7571	7620	7669	7718		6-29
67	7767	7816	7865	7914	7963	8012	8061	8110	8159	8208		7-34
68	8257	8306	8355	8404	8453	8502	8551	8600	8649	8698		8-39
69	8747	8796	8844	8893	8942	8991	9040	9089	9138	9187		9-44
8870	9236	9285	9334	9383	9432	9481	9530	9579	9628	9677		
71	9726	9775	9824	9873	9922	9971	0020	0068	0117	0166		
72	948	0215	0264	0313	0362	0411	0460	0509	0558	0607	0656	
73	0705	0754	0803	0852	0901	0950	0998	1047	1096	1145		
74	1194	1243	1292	1341	1390	1439	1488	1537	1586	1635		
75	1684	1733	1781	1830	1879	1928	1977	2026	2075	2124		
76	2173	2222	2271	2320	2369	2418	2466	2515	2564	2613		
77	2662	2711	2760	2809	2858	2907	2956	3005	3054	3102		
78	3151	3200	3249	3298	3347	3396	3445	3494	3543	3592		
79	3641	3689	3738	3787	3836	3885	3934	3983	4032	4081		
8880	4130	4179	4227	4276	4325	4374	4423	4472	4521	4570		48
81	4619	4668	4717	4765	4814	4863	4912	4961	5010	5059		1-5
82	5108	5157	5205	5254	5303	5352	5401	5450	5499	5548		2-10
83	5597	5646	5694	5743	5792	5841	5890	5939	5988	6037		3-14
84	6085	6134	6183	6232	6281	6330	6379	6428	6477	6525		4-19
85	6574	6623	6672	6721	6770	6819	6868	6916	6965	7014		5-24
86	7063	7112	7161	7210	7259	7307	7356	7405	7454	7503		6-29
87	7552	7601	7650	7698	7747	7796	7845	7894	7943	7992		7-34
88	8040	8089	8138	8187	8236	8285	8334	8382	8431	8480		8-38
89	8529	8578	8627	8676	8724	8773	8822	8871	8920	8969		9-43
8890	9018	9066	9115	9164	9213	9262	9311	9360	9408	9457		
91	9506	9555	9604	9653	9701	9750	9799	9848	9897	9946		
92	9995	0043	0092	0141	0190	0239	0288	0336	0385	0434		
93	949	0483	0532	0581	0629	0678	0727	0776	0825	0874	0922	
94	0971	1020	1069	1118	1167	1215	1264	1313	1362	1411		
95	1460	1508	1557	1606	1655	1704	1752	1801	1850	1899		
96	1948	1997	2045	2094	2143	2192	2241	2289	2338	2387		
97	2436	2485	2534	2582	2631	2680	2729	2778	2826	2875		
98	2924	2973	3022	3070	3119	3168	3217	3266	3314	3363		
99	3412	3461	3510	3558	3607	3656	3705	3754	3802	3851		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 89000 L. 949

Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.
3900	9493900	3949	3998	4046	4095	4144	4193	4242	4290	4339		
01	4388	4437	4486	4534	4583	4632	4681	4730	4778	4827		
02	4876	4925	4973	5022	5071	5120	5169	5217	5266	5315		
03	5364	5413	5461	5510	5559	5608	5656	5705	5754	5803		
04	5852	5900	5949	5998	6047	6095	6144	6193	6242	6290		
05	6339	6388	6437	6486	6534	6583	6632	6681	6729	6778		
06	6827	6876	6924	6973	7022	7071	7119	7168	7217	7266		
07	7315	7363	7412	7461	7510	7558	7607	7656	7705	7753		
08	7802	7851	7900	7948	7997	8046	8095	8143	8192	8241		
09	8290	8338	8387	8436	8485	8533	8582	8631	8680	8728		
8910	8777	8826	8875	8923	8972	9021	9069	9118	9167	9216		49
11	9264	9313	9362	9411	9459	9508	9557	9606	9654	9703		1—5
12	9752	9801	9849	9898	9947	9995	0044	0093	0142	0190		2—10
13	9502	9539	9576	9613	9650	9687	9724	9761	9798	9835		3—15
14	0726	0775	0824	0872	0921	0970	1019	1067	1116	1165		4—20
15	1213	1262	1311	1360	1408	1457	1506	1554	1603	1652		5—24
16	1701	1749	1798	1847	1895	1944	1993	2042	2090	2139		6—29
17	2188	2236	2285	2334	2382	2431	2480	2529	2577	2626		7—34
18	2675	2723	2772	2821	2869	2918	2967	3016	3064	3113		8—39
19	3162	3210	3259	3308	3356	3405	3454	3502	3551	3600		9—44
8920	3649	3697	3746	3795	3843	3892	3941	3989	4038	4087		
21	4135	4184	4233	4281	4330	4379	4427	4476	4525	4574		
22	4622	4671	4720	4768	4817	4866	4914	4963	5012	5060		
23	5109	5158	5206	5255	5304	5352	5401	5450	5498	5547		
24	5596	5644	5693	5742	5790	5839	5888	5936	5985	6034		
25	6082	6131	6180	6228	6277	6326	6374	6423	6472	6520		
26	6569	6617	6666	6715	6763	6812	6861	6909	6958	7007		
27	7055	7104	7153	7201	7250	7299	7347	7396	7445	7493		
28	7542	7590	7639	7688	7736	7785	7834	7882	7931	7980		
29	8028	8077	8126	8174	8223	8271	8320	8369	8417	8466		
8930	8515	8563	8612	8660	8709	8758	8806	8855	8904	8952		48
31	9001	9050	9098	9147	9195	9244	9293	9341	9390	9439		1—5
32	9487	9536	9584	9633	9682	9730	9779	9827	9876	9925		2—10
33	9973	0022	0071	0119	0168	0216	0265	0314	0362	0411		3—14
34	9510	9559	9608	9657	9705	9754	9803	9852	9901	9950		4—19
35	0946	0994	1043	1091	1140	1189	1237	1286	1334	1383		5—24
36	1432	1480	1529	1577	1626	1675	1723	1772	1820	1869		6—29
37	1918	1966	2015	2063	2112	2161	2209	2258	2306	2355		7—34
38	2404	2452	2501	2549	2598	2646	2695	2744	2792	2841		8—38
39	2889	2938	2987	3035	3084	3132	3181	3229	3278	3327		9—43
8940	3375	3424	3472	3521	3569	3618	3667	3715	3764	3812		
41	3861	3910	3958	4007	4055	4104	4152	4201	4250	4298		
42	4347	4395	4444	4492	4541	4589	4638	4687	4735	4784		
43	4832	4881	4929	4978	5027	5075	5124	5172	5221	5269		
44	5318	5366	5415	5464	5512	5561	5609	5658	5706	5755		
45	5803	5852	5901	5949	5998	6046	6095	6143	6192	6240		
46	6289	6337	6386	6435	6483	6532	6580	6629	6677	6726		
47	6774	6823	6871	6920	6969	7017	7066	7114	7163	7211		
48	7260	7308	7357	7405	7454	7502	7551	7599	7648	7697		
49	7745	7794	7842	7891	7939	7988	8036	8085	8133	8182		
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51	8716	8764	8813	8861	8910	8958	9007	9055	9104	9152		
52	9201	9249	9298	9346	9395	9443	9492	9540	9589	9637		
53	9686	9734	9783	9831	9880	9928	9977	0025	0074	0122		
54	9520171	0219	0268	0316	0365	0413	0462	0510	0559	0607		
55	0656	0704	0753	0801	0850	0898	0947	0995	1044	1092		
56	1141	1189	1238	1286	1335	1383	1432	1480	1529	1577		
57	1626	1674	1723	1771	1820	1868	1917	1965	2014	2062		
58	2111	2159	2208	2256	2305	2353	2401	2450	2498	2547		
59	2595	2644	2692	2741	2789	2838	2886	2935	2983	3032		
8960	3080	3129	3177	3226	3274	3322	3371	3419	3468	3516		
61	3565	3613	3662	3710	3759	3807	3856	3904	3952	4001		49
62	4049	4098	4146	4195	4243	4292	4340	4389	4437	4486		1-5
63	4534	4582	4631	4679	4728	4776	4825	4873	4922	4970		2-10
64	5018	5067	5115	5164	5212	5261	5309	5358	5406	5454		3-15
65	5503	5551	5600	5648	5697	5745	5794	5842	5890	5939		4-20
66	5987	6036	6084	6133	6181	6230	6278	6326	6375	6423		5-24
67	6472	6520	6569	6617	6665	6714	6762	6811	6859	6908		6-29
68	6956	7004	7053	7101	7150	7198	7247	7295	7343	7392		7-34
69	7440	7489	7537	7586	7634	7682	7731	7779	7828	7876		8-39
8970	7924	7973	8021	8070	8118	8167	8215	8263	8312	8360		9-44
71	8409	8457	8505	8554	8602	8651	8699	8747	8796	8844		
72	8893	8941	8989	9038	9086	9135	9183	9231	9280	9328		
73	9377	9425	9473	9522	9570	9619	9667	9715	9764	9812		
74	9861	9909	9957	0006	0054	0103	0151	0199	0248	0296		
75	9530345	0393	0441	0490	0538	0587	0635	0683	0732	0780		
76	0828	0877	0925	0974	1022	1070	1119	1167	1215	1264		
77	1312	1361	1409	1457	1506	1554	1603	1651	1699	1748		
78	1796	1844	1893	1941	1989	2038	2086	2135	2183	2231		
79	2280	2328	2376	2425	2473	2522	2570	2618	2667	2715		
8980	2763	2812	2860	2908	2957	3005	3054	3102	3150	3199		48
81	3247	3295	3344	3392	3440	3489	3537	3585	3634	3682		1-5
82	3731	3779	3827	3876	3924	3972	4021	4069	4117	4166		2-10
83	4214	4262	4311	4359	4407	4456	4504	4552	4601	4649		3-14
84	4697	4746	4794	4842	4891	4939	4987	5036	5084	5132		4-19
85	5181	5229	5277	5326	5374	5422	5471	5519	5567	5616		5-24
86	5664	5712	5761	5809	5857	5906	5954	6002	6051	6099		6-29
87	6147	6196	6244	6292	6341	6389	6437	6486	6534	6582		7-34
88	6631	6679	6727	6776	6824	6872	6921	6969	7017	7065		8-38
89	7114	7162	7210	7259	7307	7355	7404	7452	7500	7549		9-43
8990	7597	7645	7694	7742	7790	7838	7887	7935	7983	8032		
91	8080	8128	8177	8225	8273	8321	8370	8418	8466	8515		
92	8563	8611	8660	8708	8756	8804	8853	8901	8949	8998		
93	9046	9094	9143	9191	9239	9287	9336	9384	9432	9481		
94	9529	9577	9625	9674	9722	9770	9819	9867	9915	9963		
95	9540012	0060	0108	0157	0205	0253	0301	0350	0398	0446		
96	0494	0543	0591	0639	0688	0736	0784	0832	0881	0929		
97	0977	1025	1074	1122	1170	1219	1267	1315	1363	1412		
98	1460	1508	1556	1605	1653	1701	1749	1798	1846	1894		
99	1943	1991	2039	2087	2136	2184	2232	2280	2329	2377		
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02	3390	3438	3487	3535	3583	3631	3680	3728	3776	3824		
03	3873	3921	3969	4017	4065	4114	4162	4210	4258	4307		
04	4355	4403	4451	4500	4548	4596	4644	4692	4741	4789		
05	4837	4885	4934	4982	5030	5078	5127	5175	5223	5271		
06	5319	5368	5416	5464	5512	5561	5609	5657	5705	5753		
07	5802	5850	5898	5946	5994	6043	6091	6139	6187	6236		
08	6284	6332	6380	6428	6477	6525	6573	6621	6669	6718		
09	6766	6814	6862	6910	6959	7007	7055	7103	7152	7200		
9010	7248	7296	7344	7393	7441	7489	7537	7585	7634	7682		49
11	7730	7778	7826	7874	7923	7971	8019	8067	8115	8164		1—5
12	8212	8260	8308	8356	8405	8453	8501	8549	8597	8646		2—10
13	8694	8742	8790	8838	8886	8935	8983	9031	9079	9127		3—15
14	9176	9224	9272	9320	9368	9416	9465	9513	9561	9609		4—20
15	9657	9705	9754	9802	9850	9898	9946	9995	0043	0091		5—24
16	955	0139	0187	0235	0284	0332	0380	0428	0476	0524		6—29
17	0621	0669	0717	0765	0813	0862	0910	0958	1006	1054		7—34
18	1102	1150	1199	1247	1295	1343	1391	1439	1488	1536		8—39
19	1584	1632	1680	1728	1776	1825	1873	1921	1969	2017		9—44
9020	2065	2114	2162	2210	2258	2306	2354	2402	2451	2499		
21	2547	2595	2643	2691	2739	2788	2836	2884	2932	2980		
22	3028	3076	3125	3173	3221	3269	3317	3365	3413	3461		
23	3510	3558	3606	3654	3702	3750	3798	3846	3895	3943		
24	3991	4039	4087	4135	4183	4231	4280	4328	4376	4424		
25	4472	4520	4568	4616	4665	4713	4761	4809	4857	4905		
26	4953	5001	5050	5098	5146	5194	5242	5290	5338	5386		
27	5434	5483	5531	5579	5627	5675	5723	5771	5819	5867		
28	5916	5964	6012	6060	6108	6156	6204	6252	6300	6348		
29	6397	6445	6493	6541	6589	6637	6685	6733	6781	6829		
9030	6878	6926	6974	7022	7070	7118	7166	7214	7262	7310		48
31	7358	7407	7455	7503	7551	7599	7647	7695	7743	7791		1—5
32	7839	7887	7935	7984	8032	8080	8128	8176	8224	8272		2—10
33	8320	8368	8416	8464	8512	8560	8609	8657	8705	8753		3—14
34	8801	8849	8897	8945	8993	9041	9089	9137	9185	9234		4—19
35	9282	9330	9378	9426	9474	9522	9570	9618	9666	9714		5—24
36	9762	9810	9858	9906	9954	0003	0051	0099	0147	0195		6—29
37	956	0243	0291	0339	0387	0435	0483	0531	0579	0627		7—34
38	0723	0771	0819	0868	0916	0964	1012	1060	1108	1156		8—38
39	1204	1252	1300	1348	1396	1444	1492	1540	1588	1636		9—43
9040	1684	1732	1780	1828	1876	1925	1973	2021	2069	2117		
41	2165	2213	2261	2309	2357	2405	2453	2501	2549	2597		
42	2645	2693	2741	2789	2837	2885	2933	2981	3029	3077		
43	3125	3173	3221	3269	3317	3365	3413	3461	3509	3558		
44	3606	3654	3702	3750	3798	3846	3894	3942	3990	4038		
45	4086	4134	4182	4230	4278	4326	4374	4422	4470	4518		
46	4566	4614	4662	4710	4758	4806	4854	4902	4950	4998		
47	5046	5094	5142	5190	5238	5286	5334	5382	5430	5478		48
48	5526	5574	5622	5670	5718	5766	5814	5862	5910	5958		
49	6006	6054	6102	6150	6198	6246	6294	6342	6390	6438		
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51		6966	7014	7062	7110	7158	7206	7254	7302	7349	7397	
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53		7925	7973	8021	8069	8117	8165	8213	8261	8309	8357	
54		8405	8453	8501	8549	8597	8645	8693	8741	8789	8837	
55		8885	8933	8980	9028	9076	9124	9172	9220	9268	9316	
56		9364	9412	9460	9508	9556	9604	9652	9700	9748	9796	
57		9844	9892	9940	9988	0035	0083	0131	0179	0227	0275	
58	957	0323	0371	0419	0467	0515	0563	0611	0659	0707	0755	
59		0803	0851	0898	0946	0994	1042	1090	1138	1186	1234	
9060		1282	1330	1378	1426	1474	1522	1570	1618	1665	1713	48
61		1761	1809	1857	1905	1953	2001	2049	2097	2145	2193	1-5
62		2241	2289	2336	2384	2432	2480	2528	2576	2624	2672	2-10
63		2720	2768	2816	2864	2911	2959	3007	3055	3103	3151	3-14
64		3199	3247	3295	3343	3391	3439	3486	3534	3582	3630	4-19
65		3678	3726	3774	3822	3870	3918	3966	4013	4061	4109	5-24
66		4157	4205	4253	4301	4349	4397	4445	4492	4540	4588	6-29
67		4636	4684	4732	4780	4828	4876	4924	4971	5019	5067	7-34
68		5115	5163	5211	5259	5307	5355	5402	5450	5498	5546	8-38
69		5594	5642	5690	5738	5786	5833	5881	5929	5977	6025	9-43
9070		6073	6121	6169	6217	6264	6312	6360	6408	6456	6504	
71		6552	6600	6647	6695	6743	6791	6839	6887	6935	6983	
72		7030	7078	7126	7174	7222	7270	7318	7366	7413	7461	
73		7509	7557	7605	7653	7701	7748	7796	7844	7892	7940	
74		7988	8036	8083	8131	8179	8227	8275	8323	8371	8418	
75		8466	8514	8562	8610	8658	8706	8753	8801	8849	8897	
76		8945	8993	9041	9088	9136	9184	9232	9280	9328	9376	
77		9423	9471	9519	9567	9615	9663	9710	9758	9806	9854	
78		9902	9950	9997	0045	0093	0141	0189	0237	0284	0332	
79	958	0380	0428	0476	0524	0571	0619	0667	0715	0763	0811	
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81		1337	1385	1432	1480	1528	1576	1624	1672	1719	1767	1-5
82		1815	1863	1911	1958	2006	2054	2102	2150	2198	2245	2-9
83		2293	2341	2389	2437	2484	2532	2580	2628	2676	2723	3-14
84		2771	2819	2867	2915	2962	3010	3058	3106	3154	3202	4-19
85		3249	3297	3345	3393	3441	3488	3536	3584	3632	3680	5-23
86		3727	3775	3823	3871	3919	3966	4014	4062	4110	4157	6-28
87		4205	4253	4301	4349	4396	4444	4492	4540	4588	4635	7-33
88		4683	4731	4779	4827	4874	4922	4970	5018	5065	5113	8-38
89		5161	5209	5257	5304	5352	5400	5448	5495	5543	5591	9-42
9090		5639	5687	5734	5782	5830	5878	5925	5973	6021	6069	
91		6117	6164	6212	6260	6308	6355	6403	6451	6499	6547	
92		6594	6642	6690	6738	6785	6833	6881	6929	6976	7024	
93		7072	7120	7167	7215	7263	7311	7358	7406	7454	7502	
94		7549	7597	7645	7693	7741	7788	7836	7884	7932	7979	
95		8027	8075	8123	8170	8218	8266	8314	8361	8409	8457	
96		8505	8552	8600	8648	8695	8743	8791	8839	8886	8934	
97		8982	9030	9077	9125	9173	9221	9268	9316	9364	9412	
98		9459	9507	9555	9603	9650	9698	9746	9793	9841	9889	
99		9937	9984	0032	0080	0128	0175	0223	0271	0318	0366	
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01		0891	0939	0987	1034	1082	1130	1177	1225	1273	1321	
02		1368	1416	1464	1511	1559	1607	1655	1702	1750	1798	
03		1845	1893	1941	1989	2036	2084	2132	2179	2227	2275	
04		2322	2370	2418	2466	2513	2561	2609	2656	2704	2752	
05		2800	2847	2895	2943	2990	3038	3086	3133	3181	3229	
06		3276	3324	3372	3420	3467	3515	3563	3610	3658	3706	
07		3753	3801	3849	3896	3944	3992	4039	4087	4135	4183	
08		4230	4278	4326	4373	4421	4469	4516	4564	4612	4659	
09		4707	4755	4802	4850	4898	4945	4993	5041	5088	5136	
9110		5184	5231	5279	5327	5374	5422	5470	5517	5565	5613	48
11		5660	5708	5756	5803	5851	5899	5946	5994	6042	6089	1—5
12		6137	6185	6232	6280	6328	6375	6423	6471	6518	6566	2—10
13		6614	6661	6709	6757	6804	6852	6900	6947	6995	7043	3—14
14		7090	7138	7186	7233	7281	7328	7376	7424	7471	7519	4—19
15		7567	7614	7662	7710	7757	7805	7853	7900	7948	7996	5—24
16		8043	8091	8138	8186	8234	8281	8329	8377	8424	8472	6—29
17		8520	8567	8615	8662	8710	8758	8805	8853	8901	8948	7—34
18		8996	9044	9091	9139	9186	9234	9282	9329	9377	9425	8—38
19		9472	9520	9567	9615	9663	9710	9758	9806	9853	9901	9—43
9120		9948	9996	0044	0091	0139	0186	0234	0282	0329	0377	
21	960	0425	0472	0520	0567	0615	0663	0710	0758	0805	0853	
22		0901	0948	0996	1044	1091	1139	1186	1234	1282	1329	
23		1377	1424	1472	1520	1567	1615	1662	1710	1758	1805	
24		1853	1900	1948	1996	2043	2091	2138	2186	2234	2281	
25		2329	2376	2424	2472	2519	2567	2614	2662	2709	2757	
26		2805	2852	2900	2947	2995	3043	3090	3138	3185	3233	
27		3281	3328	3376	3423	3471	3518	3566	3614	3661	3709	
28		3756	3804	3851	3899	3947	3994	4042	4089	4137	4184	
29		4232	4280	4327	4375	4422	4470	4517	4565	4613	4660	
9130		4708	4755	4803	4850	4898	4946	4993	5041	5088	5136	47
31		5183	5231	5279	5326	5374	5421	5469	5516	5564	5611	1—5
32		5659	5707	5754	5802	5849	5897	5944	5992	6039	6087	2—9
33		6135	6182	6230	6277	6325	6372	6420	6467	6515	6563	3—14
34		6610	6658	6705	6753	6800	6848	6895	6943	6990	7038	4—19
35		7086	7133	7181	7228	7276	7323	7371	7418	7466	7513	5—23
36		7561	7608	7656	7704	7751	7799	7846	7894	7941	7989	6—28
37		8036	8084	8131	8179	8226	8274	8321	8369	8416	8464	7—33
38		8512	8559	8607	8654	8702	8749	8797	8844	8892	8939	8—38
39		8987	9034	9082	9129	9177	9224	9272	9319	9367	9414	9—42
9140		9462	9509	9557	9605	9652	9700	9747	9795	9842	9890	
41		9937	9985	0032	0080	0127	0175	0222	0270	0317	0365	
42	961	0412	0460	0507	0555	0602	0650	0697	0745	0792	0840	
43		0887	0935	0982	1030	1077	1125	1172	1220	1267	1315	
44		1362	1410	1457	1505	1552	1600	1647	1695	1742	1790	
45		1837	1885	1932	1980	2027	2075	2122	2170	2217	2264	
46		2312	2359	2407	2454	2502	2549	2597	2644	2692	2739	
47		2787	2834	2882	2929	2977	3024	3072	3119	3167	3214	
48		3262	3309	3357	3404	3451	3499	3546	3594	3641	3689	
49		3736	3784	3831	3879	3926	3974	4021	4069	4116	4163	
Sum	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pro.
9150	961	4211	4258	4306	4353	4401	4448	4496	4543	4591	4638	
51		4686	4733	4780	4828	4875	4923	4970	5018	5065	5113	
52		5160	5208	5255	5302	5350	5397	5445	5492	5540	5587	
53		5635	5682	5730	5777	5824	5872	5919	5967	6014	6062	
54		6109	6157	6204	6251	6299	6346	6394	6441	6489	6536	
55		6583	6631	6678	6726	6773	6821	6868	6916	6963	7010	
56		7058	7105	7153	7200	7248	7295	7342	7390	7437	7485	
57		7532	7580	7627	7674	7722	7769	7817	7864	7912	7959	
58		8006	8054	8101	8149	8196	8243	8291	8338	8386	8433	
59		8481	8528	8575	8623	8670	8718	8765	8812	8860	8907	
9160		8955	9002	9050	9097	9144	9192	9239	9287	9334	9381	48
61		9429	9476	9524	9571	9618	9666	9713	9761	9808	9855	1-5
62		9903	9950	9998	0045	0092	0140	0187	0235	0282	0329	2-10
63	962	0377	0424	0472	0519	0566	0614	0661	0709	0756	0803	3-14
64		0851	0898	0946	0993	1040	1088	1135	1183	1230	1277	4-19
65		1325	1372	1419	1467	1514	1562	1609	1656	1704	1751	5-24
66		1799	1846	1893	1941	1988	2035	2083	2130	2178	2225	6-29
67		2272	2320	2367	2414	2462	2509	2557	2604	2651	2699	7-34
68		2746	2793	2841	2888	2936	2983	3030	3078	3125	3172	8-38
69		3220	3267	3314	3362	3409	3457	3504	3551	3599	3646	9-43
9170		3693	3741	3788	3835	3883	3930	3978	4025	4072	4120	
71		4167	4214	4262	4309	4356	4404	4451	4498	4546	4593	
72		4640	4688	4735	4783	4830	4877	4925	4972	5019	5067	
73		5114	5161	5209	5256	5303	5351	5398	5445	5493	5540	
74		5587	5635	5682	5729	5777	5824	5871	5919	5966	6013	
75		6061	6108	6155	6203	6250	6297	6345	6392	6439	6487	
76		6534	6581	6629	6676	6723	6771	6818	6865	6913	6960	
77		7007	7055	7102	7149	7197	7244	7291	7338	7386	7433	
78		7481	7528	7575	7622	7670	7717	7764	7812	7859	7906	
79		7954	8001	8048	8096	8143	8190	8238	8285	8332	8380	
9180		8427	8474	8521	8569	8616	8663	8711	8758	8805	8853	47
81		8900	8947	8994	9042	9089	9136	9184	9231	9278	9326	1-5
82		9373	9420	9467	9515	9562	9609	9657	9704	9751	9799	2-9
83		9846	9893	9940	9988	0035	0082	0130	0177	0224	0271	3-14
84	963	0319	0366	0413	0461	0508	0555	0602	0650	0697	0744	4-19
85		0792	0839	0886	0933	0981	1028	1075	1123	1170	1217	5-23
86		1264	1312	1359	1406	1454	1501	1548	1595	1643	1690	6-28
87		1737	1784	1832	1879	1926	1974	2021	2068	2115	2163	7-33
88		2210	2257	2304	2352	2399	2446	2493	2541	2588	2635	8-38
89		2683	2730	2777	2824	2872	2919	2966	3013	3061	3108	9-42
9190		3155	3202	3250	3297	3344	3391	3439	3486	3533	3580	
91		3628	3675	3722	3769	3817	3864	3911	3958	4006	4053	
92		4100	4147	4195	4242	4289	4336	4384	4431	4478	4525	
93		4573	4620	4667	4714	4762	4809	4856	4903	4951	4998	
94		5045	5092	5139	5187	5234	5281	5328	5376	5423	5470	
95		5517	5565	5612	5659	5706	5753	5801	5848	5895	5942	
96		5990	6037	6084	6131	6179	6226	6273	6320	6367	6415	
97		6462	6509	6556	6604	6651	6698	6745	6792	6840	6887	
98		6934	6981	7028	7076	7123	7170	7217	7264	7312	7359	
99		7406	7453	7501	7548	7595	7642	7689	7737	7784	7831	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

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Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9200	9637878	7925	7973	8020	8067	8114	8161	8209	8256	8303		
01	8350	8398	8445	8492	8539	8586	8633	8681	8728	8775		
02	8822	8869	8917	8964	9011	9058	9105	9153	9200	9247		
03	9294	9341	9389	9436	9483	9530	9577	9625	9672	9719		
04	9766	9813	9860	9908	9955	0002	0049	0096	0144	0191		
05	9640238	0285	0332	0379	0427	0474	0521	0568	0615	0663		
06	0710	0757	0804	0851	0898	0946	0993	1040	1087	1134		
07	1181	1229	1276	1323	1370	1417	1464	1512	1559	1606		
08	1653	1700	1747	1795	1842	1889	1936	1983	2030	2078		
09	2125	2172	2219	2266	2313	2361	2408	2455	2502	2549		
9210	2596	2643	2691	2738	2785	2832	2879	2926	2974	3021		48
11	3068	3115	3162	3209	3256	3304	3351	3398	3445	3492		1—5
12	3539	3586	3634	3681	3728	3775	3822	3869	3916	3964		2—10
13	4011	4058	4105	4152	4199	4246	4294	4341	4388	4435		3—14
14	4482	4529	4576	4623	4671	4718	4765	4812	4859	4906		4—19
15	4953	5001	5048	5095	5142	5189	5236	5283	5330	5378		5—24
16	5425	5472	5519	5566	5613	5660	5707	5755	5802	5849		6—29
17	5896	5943	5990	6037	6084	6131	6179	6226	6273	6320		7—34
18	6367	6414	6461	6508	6555	6603	6650	6697	6744	6791		8—38
19	6838	6885	6932	6979	7027	7074	7121	7168	7215	7262		9—43
9220	7309	7356	7403	7451	7498	7545	7592	7639	7686	7733		
21	7780	7827	7874	7922	7969	8016	8063	8110	8157	8204		
22	8251	8298	8345	8392	8440	8487	8534	8581	8628	8675		
23	8722	8769	8816	8863	8910	8958	9005	9052	9099	9146		
24	9193	9240	9287	9334	9381	9428	9475	9523	9570	9617		
25	9664	9711	9758	9805	9852	9899	9946	9993	0040	0087		
26	9650135	0182	0229	0276	0323	0370	0417	0464	0511	0558		
27	0605	0652	0699	0746	0793	0841	0888	0935	0982	1029		
28	1076	1123	1170	1217	1264	1311	1358	1405	1452	1499		
29	1546	1593	1641	1688	1735	1782	1829	1876	1923	1970		
9230	2017	2064	2111	2158	2205	2252	2299	2346	2393	2440		47
31	2488	2534	2582	2629	2676	2723	2770	2817	2864	2911		1—5
32	2958	3005	3052	3099	3146	3193	3240	3287	3334	3381		2—9
33	3428	3475	3522	3569	3617	3664	3711	3758	3805	3852		3—14
34	3899	3946	3993	4040	4087	4134	4181	4228	4275	4322		4—19
35	4369	4416	4463	4510	4557	4604	4651	4698	4745	4792		5—23
36	4839	4886	4933	4980	5027	5074	5121	5168	5215	5262		6—28
37	5309	5356	5403	5450	5497	5545	5592	5639	5686	5733		7—33
38	5780	5827	5874	5921	5968	6015	6062	6109	6156	6203		8—38
39	6250	6297	6344	6391	6438	6485	6532	6579	6626	6673		9—42
9240	6720	6767	6814	6861	6908	6955	7002	7049	7096	7143		
41	7190	7237	7284	7331	7378	7425	7472	7519	7566	7613		
42	7660	7707	7754	7801	7848	7895	7942	7989	8036	8083		
43	8130	8177	8224	8270	8317	8364	8411	8458	8505	8552		
44	8599	8646	8693	8740	8787	8834	8881	8928	8975	9022		
45	9069	9116	9163	9210	9257	9304	9351	9398	9445	9492		
46	9539	9586	9633	9680	9727	9774	9821	9868	9915	9962		
47	9660009	0056	0103	0149	0196	0243	0290	0337	0384	0431		
48	0478	0525	0572	0619	0666	0713	0760	0807	0854	0901		
49	0948	0995	1042	1089	1136	1183	1230	1276	1323	1370		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9250	966	1417	1464	1511	1558	1605	1652	1699	1746	1793	1840	
51		1887	1934	1981	2028	2075	2122	2168	2215	2262	2309	
52		2356	2403	2450	2497	2544	2591	2638	2685	2732	2779	
53		2826	2873	2919	2966	3013	3060	3107	3154	3201	3248	
54		3295	3342	3389	3436	3483	3530	3577	3623	3670	3717	
55		3764	3811	3858	3905	3952	3999	4046	4093	4140	4187	
56		4233	4280	4327	4374	4421	4468	4515	4562	4609	4656	
57		4703	4750	4796	4843	4890	4937	4984	5031	5078	5125	
58		5172	5219	5266	5312	5359	5406	5453	5500	5547	5594	
59		5641	5688	5735	5782	5828	5875	5922	5969	6016	6063	
9260		6110	6157	6204	6251	6297	6344	6391	6438	6485	6532	47
61		6579	6626	6673	6720	6766	6813	6860	6907	6954	7001	1-5
62		7048	7095	7142	7188	7235	7282	7329	7376	7423	7470	2-9
63		7517	7564	7610	7657	7704	7751	7798	7845	7892	7939	3-14
64		7985	8032	8079	8126	8173	8220	8267	8314	8360	8407	4-19
65		8454	8501	8548	8595	8642	8689	8735	8782	8829	8876	5-23
66		8923	8970	9017	9064	9110	9157	9204	9251	9298	9345	6-28
67		9392	9438	9485	9532	9579	9626	9673	9720	9767	9813	7-33
68		9860	9907	9954	0001	0048	0095	0141	0188	0235	0282	8-38
69	967	0329	0376	0423	0469	0516	0563	0610	0657	0704	0750	9-42
9270		0797	0844	0891	0938	0985	1032	1078	1125	1172	1219	
71		1266	1313	1359	1406	1453	1500	1547	1594	1641	1687	
72		1734	1781	1828	1875	1922	1968	2015	2062	2109	2156	
73		2203	2249	2296	2343	2390	2437	2483	2530	2577	2624	
74		2671	2718	2765	2811	2858	2905	2952	2999	3046	3092	
75		3139	3186	3233	3280	3326	3373	3420	3467	3514	3561	
76		3607	3654	3701	3748	3795	3841	3888	3935	3982	4029	
77		4076	4122	4169	4216	4263	4310	4356	4403	4450	4497	
78		4544	4590	4637	4684	4731	4778	4825	4871	4918	4965	
79		5012	5058	5105	5152	5199	5246	5292	5339	5386	5433	
9280		5480	5527	5573	5620	5667	5714	5761	5807	5854	5901	46
81		5948	5995	6041	6088	6135	6182	6228	6275	6322	6369	1-5
82		6416	6462	6509	6556	6603	6650	6696	6743	6790	6837	2-9
83		6884	6930	6977	7024	7071	7117	7164	7211	7258	7305	3-14
84		7351	7398	7445	7492	7538	7585	7632	7679	7726	7772	4-18
85		7819	7866	7913	7959	8006	8053	8100	8146	8193	8240	5-23
86		8287	8334	8380	8427	8474	8521	8567	8614	8661	8708	6-28
87		8754	8801	8848	8895	8942	8988	9035	9082	9129	9175	7-32
88		9222	9269	9316	9362	9409	9456	9503	9549	9596	9643	8-37
89		9690	9736	9783	9830	9877	9923	9970	0017	0064	0110	9-41
9290	968	0157	0204	0251	0297	0344	0391	0438	0484	0531	0578	
91		0625	0671	0718	0765	0812	0858	0905	0952	0999	1045	
92		1092	1139	1185	1232	1279	1326	1372	1419	1466	1513	
93		1559	1606	1653	1699	1746	1793	1840	1886	1933	1980	
94		2027	2073	2120	2167	2214	2260	2307	2354	2400	2447	
95		2494	2541	2587	2634	2681	2727	2774	2821	2868	2914	
96		2961	3008	3054	3101	3148	3195	3241	3288	3335	3382	
97		3428	3475	3522	3568	3615	3662	3708	3755	3802	3849	
98		3895	3942	3988	4036	4082	4129	4176	4222	4269	4316	
99		4362	4409	4456	4503	4549	4596	4643	4689	4736	4782	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 93000 L.968

Num	0	1	2	3	4	5	6	7	8	9	D	Pro.
9300	968	4829	4876	4923	4970	5016	5063	5110	5156	5203	5250	
01	5296	5343	5390	5437	5483	5530	5577	5623	5670	5717		
02	5763	5810	5857	5903	5950	5997	6043	6090	6137	6184		
03	6230	6277	6324	6370	6417	6464	6510	6557	6604	6650		
04	6697	6744	6790	6837	6884	6930	6977	7024	7070	7117		
05	7164	7210	7257	7304	7350	7397	7444	7490	7537	7584		
06	7630	7677	7724	7770	7817	7864	7910	7957	8004	8050		
07	8097	8144	8190	8237	8284	8330	8377	8424	8470	8517		
08	8564	8610	8657	8704	8750	8797	8844	8890	8937	8984		
09	9030	9077	9124	9170	9217	9264	9310	9357	9404	9450		
9310	9497	9543	9590	9637	9683	9730	9777	9823	9870	9917		47
11	9963	0010	0056	0103	0150	0196	0243	0290	0336	0383		1—5
12	969	0430	0476	0523	0570	0616	0663	0709	0756	0803		2—9
13	0896	0943	0989	1036	1083	1129	1176	1222	1269	1316		3—14
14	1362	1409	1456	1502	1549	1595	1642	1689	1735	1782		4—19
15	1829	1875	1922	1968	2015	2062	2108	2155	2202	2248		5—23
16	2295	2341	2388	2435	2481	2528	2574	2621	2668	2714		6—28
17	2761	2808	2854	2901	2947	2994	3041	3087	3134	3180		7—33
18	3227	3274	3320	3367	3413	3460	3507	3553	3600	3647		8—38
19	3693	3740	3786	3833	3880	3926	3973	4019	4066	4113		9—42
9320	4159	4206	4252	4299	4346	4392	4439	4485	4532	4578		
21	4625	4672	4718	4765	4811	4858	4905	4951	4998	5044		
22	5091	5138	5184	5231	5277	5324	5371	5417	5464	5510		
23	5557	5603	5650	5697	5743	5790	5836	5883	5929	5976		
24	6023	6069	6116	6162	6209	6256	6302	6349	6395	6442		
25	6488	6535	6582	6628	6675	6721	6768	6814	6861	6908		
26	6954	7001	7047	7094	7140	7187	7234	7280	7327	7373		
27	7420	7466	7513	7559	7606	7653	7699	7746	7792	7839		
28	7885	7932	7978	8025	8072	8118	8165	8211	8258	8304		
29	8351	8397	8444	8491	8537	8584	8630	8677	8723	8770		
9330	8816	8863	8910	8956	9003	9049	9096	9142	9189	9235		46
31	9282	9328	9375	9422	9468	9515	9561	9608	9654	9701		1—5
32	9747	9794	9840	9887	9933	9980	0027	0073	0120	0166		2—9
33	970	0213	0259	0306	0352	0399	0445	0492	0538	0585		3—14
34	0678	0724	0771	0818	0864	0911	0957	1004	1050	1097		4—18
35	1143	1190	1236	1283	1329	1376	1422	1469	1515	1562		5—23
36	1608	1655	1701	1748	1794	1841	1888	1934	1981	2027		6—28
37	2074	2120	2167	2213	2260	2306	2353	2399	2446	2492		7—32
38	2539	2585	2632	2678	2725	2771	2818	2864	2911	2957		8—37
39	3004	3050	3097	3143	3190	3236	3283	3329	3376	3422		9—41
9340	3469	3515	3562	3608	3655	3701	3748	3794	3841	3887		
41	3934	3980	4027	4073	4120	4166	4213	4259	4306	4352		
42	4399	4445	4492	4538	4585	4631	4678	4724	4771	4817		
43	4863	4910	4956	5003	5049	5096	5142	5189	5235	5282		
44	5328	5375	5421	5468	5514	5561	5607	5654	5700	5747		
45	5793	5840	5886	5932	5979	6025	6072	6118	6165	6211		
46	6258	6304	6351	6397	6444	6490	6537	6583	6629	6676		
47	6722	6769	6815	6862	6908	6955	7001	7048	7094	7141		
48	7187	7233	7280	7326	7373	7419	7466	7512	7559	7605		
49	7652	7698	7745	7791	7837	7884	7930	7977	8023	8070		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 93500 L.970

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9350	9708116	8163	8209	8255	8302	8348	8395	8441	8488	8534		
51	8581	8627	8673	8720	8766	8813	8859	8906	8952	8999		
52	9045	9091	9138	9184	9231	9277	9324	9370	9416	9463		
53	9509	9556	9602	9649	9695	9742	9788	9834	9881	9927		
54	9974	0020	0067	0113	0159	0206	0252	0299	0345	0391		
55	9710438	0484	0531	0577	0624	0670	0716	0763	0809	0856		
56	0902	0949	0995	1041	1088	1134	1181	1227	1273	1320		
57	1366	1413	1459	1506	1552	1598	1645	1691	1738	1784		
58	1830	1877	1923	1970	2016	2062	2109	2155	2202	2248		
59	2294	2341	2387	2434	2480	2526	2573	2619	2666	2712		
9360	2758	2805	2851	2898	2944	2990	3037	3083	3130	3176		47
61	3222	3269	3315	3362	3408	3454	3501	3547	3594	3640		1—5
62	3686	3733	3779	3826	3872	3918	3965	4011	4057	4104		2—9
63	4150	4197	4243	4289	4336	4382	4429	4475	4521	4568		3—14
64	4614	4660	4707	4753	4800	4846	4892	4939	4985	5031		4—19
65	5078	5124	5171	5217	5263	5310	5356	5402	5449	5495		5—23
66	5542	5588	5634	5681	5727	5773	5820	5866	5912	5959		6—28
67	6005	6052	6098	6144	6191	6237	6283	6330	6376	6422		7—33
68	6469	6515	6562	6608	6654	6701	6747	6793	6840	6886		8—38
69	6932	6979	7025	7071	7118	7164	7211	7257	7303	7349		9—42
9370	7396	7442	7489	7535	7581	7628	7674	7720	7767	7813		
71	7859	7906	7952	7998	8045	8091	8137	8184	8230	8276		
72	8323	8369	8415	8462	8508	8554	8601	8647	8693	8740		
73	8786	8833	8879	8925	8972	9018	9064	9111	9157	9203		
74	9249	9296	9342	9388	9435	9481	9527	9574	9620	9666		
75	9713	9759	9805	9852	9898	9944	9991	0037	0083	0130		
76	9720176	0222	0269	0315	0361	0408	0454	0500	0547	0593		
77	0639	0685	0732	0778	0824	0871	0917	0963	1010	1056		
78	1102	1149	1195	1241	1288	1334	1380	1426	1473	1519		
79	1565	1612	1658	1704	1750	1797	1843	1889	1936	1982		
9380	2028	2075	2121	2167	2214	2260	2306	2352	2399	2445		46
81	2491	2538	2584	2630	2677	2723	2769	2815	2862	2908		1—5
82	2954	3001	3047	3093	3139	3186	3232	3278	3325	3371		2—9
83	3417	3463	3510	3556	3602	3649	3695	3741	3787	3834		3—14
84	3880	3926	3973	4019	4065	4111	4158	4204	4250	4296		4—18
85	4343	4389	4435	4482	4528	4574	4620	4667	4713	4759		5—23
86	4805	4852	4898	4944	4991	5037	5083	5129	5176	5222		6—28
87	5268	5314	5361	5407	5453	5500	5546	5592	5638	5685		7—32
88	5731	5777	5823	5870	5916	5962	6008	6055	6101	6147		8—37
89	6193	6240	6286	6332	6378	6425	6471	6517	6563	6610		9—41
9390	6656	6702	6748	6795	6841	6887	6933	6980	7026	7072		
91	7118	7165	7211	7257	7303	7350	7396	7442	7488	7535		
92	7581	7627	7673	7720	7766	7812	7858	7905	7951	7997		
93	8043	8089	8136	8182	8228	8274	8321	8367	8413	8459		
94	8506	8552	8598	8644	8690	8737	8783	8829	8875	8922		
95	8968	9014	9060	9107	9153	9199	9245	9291	9338	9384		
96	9430	9476	9523	9569	9615	9661	9707	9754	9800	9846		
97	9892	9938	9985	0031	0077	0123	0170	0216	0262	0308		
98	9730354	0491	0447	0493	0539	0585	0632	0678	0724	0770		
99	0816	0863	0909	0955	1001	1048	1094	1140	1186	1232		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 94000 L. 973

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9400	973	1279	1325	1371	1417	1463	1510	1556	1602	1648	1694	
01		1741	1787	1833	1879	1925	1972	2018	2064	2110	2156	
02		2202	2249	2295	2341	2387	2433	2480	2526	2572	2618	
03		2664	2711	2757	2803	2849	2895	2941	2988	3034	3080	
04		3126	3172	3218	3265	3311	3357	3403	3449	3496	3542	
05		3588	3634	3680	3727	3773	3819	3865	3911	3957	4004	
06		4050	4096	4142	4188	4234	4281	4327	4373	4419	4465	
07		4511	4558	4604	4650	4696	4742	4788	4835	4881	4927	
08		4973	5019	5065	5112	5158	5204	5250	5296	5342	5389	
09		5435	5481	5527	5573	5619	5665	5712	5758	5804	5850	
9410		5896	5942	5989	6035	6081	6127	6173	6219	6265	6312	47
11		6358	6404	6450	6496	6542	6588	6635	6681	6727	6773	1—5
12		6819	6865	6911	6958	7004	7050	7096	7142	7188	7234	2—9
13		7281	7327	7373	7419	7465	7511	7557	7604	7650	7696	3—14
14		7742	7788	7834	7880	7926	7973	8019	8065	8111	8157	4—19
15		8203	8249	8295	8342	8388	8434	8480	8526	8572	8618	5—23
16		8664	8711	8757	8803	8849	8895	8941	8987	9033	9080	6—28
17		9126	9172	9218	9264	9310	9356	9402	9449	9495	9541	7—33
18		9587	9633	9679	9725	9771	9817	9864	9910	9956	0002	8—38
19	974	0048	0094	0140	0186	0232	0279	0325	0371	0417	0463	9—42
9420		0509	0555	0601	0647	0693	0740	0786	0832	0878	0924	
21		0970	1016	1062	1108	1154	1201	1247	1293	1339	1385	
22		1431	1477	1523	1569	1615	1661	1708	1754	1800	1846	
23		1892	1938	1984	2030	2076	2122	2168	2215	2261	2307	
24		2353	2399	2445	2491	2537	2583	2629	2675	2721	2768	
25		2814	2860	2906	2952	2998	3044	3090	3136	3182	3228	
26		3274	3320	3367	3413	3459	3505	3551	3597	3643	3689	
27		3735	3781	3827	3873	3919	3965	4011	4058	4104	4150	
28		4196	4242	4288	4334	4380	4426	4472	4518	4564	4610	
29		4656	4702	4748	4795	4841	4887	4933	4979	5025	5071	
9430		5117	5163	5209	5255	5301	5347	5393	5439	5485	5531	46
31		5577	5623	5670	5716	5762	5808	5854	5900	5946	5992	1—5
32		6038	6084	6130	6176	6222	6268	6314	6360	6406	6452	2—9
33		6498	6544	6590	6636	6683	6729	6775	6821	6867	6913	3—14
34		6959	7005	7051	7097	7143	7189	7235	7281	7327	7373	4—18
35		7419	7465	7511	7557	7603	7649	7695	7741	7787	7833	5—23
36		7879	7925	7971	8017	8063	8109	8155	8201	8248	8294	6—28
37		8340	8386	8432	8478	8524	8570	8616	8662	8708	8754	7—32
38		8800	8846	8892	8938	8984	9030	9076	9122	9168	9214	8—37
39		9260	9306	9352	9398	9444	9490	9536	9582	9628	9674	9—41
9440		9720	9766	9812	9858	9904	9950	9996	0042	0088	0134	46
41	975	0180	0226	0272	0318	0364	0410	0456	0502	0548	0594	
42		0640	0686	0732	0778	0824	0870	0916	0962	1008	1054	
43		1100	1146	1192	1238	1284	1330	1376	1422	1468	1514	
44		1560	1606	1652	1698	1744	1790	1836	1882	1928	1974	
45		2020	2066	2112	2158	2204	2250	2296	2341	2387	2433	
46		2479	2525	2571	2617	2663	2709	2755	2801	2847	2893	
47		2939	2985	3031	3077	3123	3169	3215	3261	3307	3353	
48		3399	3445	3491	3537	3583	3629	3675	3721	3767	3812	
49		3858	3904	3950	3996	4042	4088	4134	4180	4226	4272	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9450	9754318	4364	4410	4456	4502	4548	4594	4640	4686	4732		
51	4778	4824	4870	4915	4961	5007	5053	5099	5145	5191		
52	5237	5283	5329	5375	5421	5467	5513	5559	5605	5651		
53	5697	5743	5788	5834	5880	5926	5972	6018	6064	6110		
54	6156	6202	6248	6294	6340	6386	6432	6478	6523	6569		
55	6615	6661	6707	6753	6799	6845	6891	6937	6983	7029		
56	7075	7121	7166	7212	7258	7304	7350	7396	7442	7488		
57	7534	7580	7626	7672	7718	7763	7809	7855	7901	7947		
58	7993	8039	8085	8131	8177	8223	8269	8315	8360	8406		
59	8452	8498	8544	8590	8636	8682	8728	8774	8820	8865		
9460	8911	8957	9003	9049	9095	9141	9187	9233	9279	9325		46
61	9370	9416	9462	9508	9554	9600	9646	9692	9738	9784		1-5
62	9829	9875	9921	9967	0013	0059	0105	0151	0197	0243		2-9
63	9760288	0334	0380	0426	0472	0518	0564	0610	0656	0701		3-14
64	0747	0793	0839	0885	0931	0977	1023	1069	1114	1160		4-18
65	1206	1252	1298	1344	1390	1436	1481	1527	1573	1619		5-23
66	1665	1711	1757	1803	1849	1894	1940	1986	2032	2078		6-28
67	2124	2170	2216	2261	2307	2353	2399	2445	2491	2537		7-32
68	2582	2628	2674	2720	2766	2812	2858	2904	2949	2995		8-37
69	3041	3087	3133	3179	3225	3270	3316	3362	3408	3454		9-41
9470	3500	3546	3592	3637	3683	3729	3775	3821	3867	3913		
71	3958	4004	4050	4096	4142	4188	4233	4279	4325	4371		
72	4417	4463	4509	4554	4600	4646	4692	4738	4784	4830		
73	4875	4921	4967	5013	5059	5105	5150	5196	5242	5288		
74	5334	5380	5425	5471	5517	5563	5609	5655	5701	5746		
75	5792	5838	5884	5930	5976	6021	6067	6113	6159	6205		
76	6251	6296	6342	6388	6434	6480	6525	6571	6617	6663		
77	6709	6755	6800	6846	6892	6938	6984	7030	7075	7121		
78	7167	7213	7259	7305	7350	7396	7442	7488	7534	7579		
79	7625	7671	7717	7763	7808	7854	7900	7946	7992	8038		
9480	8083	8129	8175	8221	8267	8312	8358	8404	8450	8496		45
81	8541	8587	8633	8679	8725	8770	8816	8862	8908	8954		1-4
82	9000	9045	9091	9137	9183	9229	9274	9320	9366	9412		2-9
83	9458	9503	9549	9595	9641	9686	9732	9778	9824	9870		3-13
84	9915	9961	0007	0053	0099	0144	0190	0236	0282	0328		4-18
85	9770373	0419	0465	0511	0556	0602	0648	0694	0740	0785		5-22
86	0831	0877	0923	0969	1014	1060	1106	1152	1197	1243		6-27
87	1289	1335	1381	1426	1472	1518	1564	1609	1655	1701		7-31
88	1747	1793	1838	1884	1930	1976	2021	2067	2113	2159		8-36
89	2204	2250	2296	2342	2388	2433	2479	2525	2571	2616		9-40
9490	2662	2708	2754	2799	2845	2891	2937	2982	3028	3074		
91	3120	3165	3211	3257	3303	3349	3394	3440	3486	3532		
92	3577	3623	3669	3715	3760	3806	3852	3898	3943	3989		
93	4035	4081	4126	4172	4218	4264	4309	4355	4401	4447		
94	4492	4538	4584	4630	4675	4721	4767	4812	4858	4904		
95	4950	4995	5041	5087	5133	5178	5224	5270	5316	5361		
96	5407	5453	5499	5544	5590	5636	5681	5727	5773	5819		
97	5864	5910	5956	6002	6047	6093	6139	6184	6230	6276		
98	6322	6367	6413	6459	6505	6550	6596	6642	6687	6733		
99	6779	6825	6870	6916	6962	7007	7053	7099	7145	7190		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

N.95000 L. 977

Num	0	1	2	3	4	5	6	7	8	9	D	Pta.
9500	9777236	7282	7327	7373	7419	7465	7510	7556	7602	7647		
01	7693	7739	7785	7830	7876	7922	7967	8013	8059	8105		
02	8150	8196	8242	8287	8333	8379	8424	8470	8516	8562		
03	8607	8653	8699	8744	8790	8836	8881	8927	8973	9019		
04	9064	9110	9156	9201	9247	9293	9338	9384	9430	9476		
05	9521	9567	9613	9658	9704	9750	9795	9841	9887	9932		
06	9978	0024	0069	0115	0161	0207	0252	0298	0344	0389		
07	9780	0435	0481	0526	0572	0618	0663	0709	0755	0800		
08	0892	0937	0983	1029	1074	1120	1166	1211	1257	1303		
09	1348	1394	1440	1485	1531	1577	1622	1668	1714	1760		
9510	1805	1851	1897	1942	1988	2033	2079	2125	2170	2216		46
11	2262	2307	2353	2399	2444	2490	2536	2581	2627	2673		1—5
12	2718	2764	2810	2855	2901	2947	2992	3038	3084	3129		2—9
13	3175	3221	3266	3312	3358	3403	3449	3495	3540	3586		3—14
14	3631	3677	3723	3768	3814	3860	3905	3951	3997	4042		4—18
15	4088	4134	4179	4225	4270	4316	4362	4407	4453	4499		5—23
16	4544	4590	4636	4681	4727	4773	4818	4864	4909	4955		6—28
17	5001	5046	5092	5138	5183	5229	5274	5320	5366	5411		7—32
18	5457	5503	5548	5594	5640	5685	5731	5776	5822	5868		8—37
19	5913	5959	6005	6050	6096	6141	6187	6233	6278	6324		9—41
9520	6369	6415	6461	6506	6552	6598	6643	6689	6734	6780		
21	6826	6871	6917	6962	7008	7054	7099	7145	7191	7236		
22	7282	7327	7373	7419	7464	7510	7555	7601	7647	7692		
23	7738	7783	7829	7875	7920	7966	8011	8057	8103	8148		
24	8194	8239	8285	8331	8376	8422	8467	8513	8559	8604		
25	8650	8695	8741	8787	8832	8878	8923	8969	9015	9060		
26	9106	9151	9197	9243	9288	9334	9379	9425	9470	9516		
27	9562	9607	9653	9698	9744	9790	9835	9881	9926	9972		
28	9790	0017	0063	0109	0154	0200	0245	0291	0337	0382		
29	0473	0519	0564	0610	0656	0701	0747	0792	0838	0883		
9530	0929	0975	1020	1066	1111	1157	1202	1248	1294	1339		45
31	1385	1430	1476	1521	1567	1613	1658	1704	1749	1795		1—4
32	1840	1886	1931	1977	2023	2068	2114	2159	2205	2250		2—9
33	2296	2341	2387	2433	2478	2524	2569	2615	2660	2706		3—13
34	2751	2797	2843	2888	2934	2979	3025	3070	3116	3161		4—18
35	3207	3253	3298	3344	3389	3435	3480	3526	3571	3617		5—22
36	3662	3708	3754	3799	3845	3890	3936	3981	4027	4072		6—27
37	4118	4163	4209	4254	4300	4346	4391	4437	4482	4528		7—31
38	4573	4619	4664	4710	4755	4801	4846	4892	4937	4983		8—36
39	5028	5074	5120	5165	5211	5256	5302	5347	5393	5438		9—40
9540	5484	5529	5575	5620	5666	5711	5757	5802	5848	5893		
41	5939	5984	6030	6076	6121	6167	6212	6258	6303	6349		
42	6394	6440	6485	6531	6576	6622	6667	6713	6758	6804		
43	6849	6895	6940	6986	7031	7077	7122	7168	7213	7259		
44	7304	7350	7395	7441	7486	7532	7577	7623	7668	7714		
45	7759	7805	7850	7896	7941	7987	8032	8078	8123	8169		
46	8214	8260	8305	8351	8396	8442	8487	8533	8578	8624		
47	8669	8715	8760	8806	8851	8897	8942	8988	9033	9079		
48	9124	9170	9215	9261	9306	9352	9397	9442	9488	9533		
49	9579	9624	9670	9715	9761	9806	9852	9897	9943	9988		
Ver	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 95500 L. 980

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9550	9800034	0079	0125	0170	0216	0261	0307	0352	0398	0443		
51	0488	0534	0579	0625	0670	0716	0761	0807	0852	0898		
52	0943	0989	1034	1080	1125	1170	1216	1261	1307	1352		
53	1398	1443	1489	1534	1580	1625	1671	1716	1761	1807		
54	1852	1898	1943	1989	2034	2080	2125	2171	2216	2261		
55	2307	2352	2398	2443	2489	2534	2580	2625	2671	2716		
56	2761	2807	2852	2898	2943	2989	3034	3080	3125	3170		
57	3216	3261	3307	3352	3398	3443	3489	3534	3579	3625		
58	3670	3716	3761	3807	3852	3897	3943	3988	4034	4079		
59	4125	4170	4215	4261	4306	4352	4397	4443	4488	4533		
9560	4579	4624	4670	4715	4761	4806	4851	4897	4942	4988		46
61	5033	5079	5124	5169	5215	5260	5306	5351	5397	5442		1—5
62	5487	5533	5578	5624	5669	5714	5760	5805	5851	5896		2—9
63	5942	5987	6032	6078	6123	6169	6214	6259	6305	6350		3—14
64	6396	6441	6486	6532	6577	6623	6668	6714	6759	6804		4—18
65	6850	6895	6941	6986	7031	7077	7122	7168	7213	7258		5—23
66	7304	7349	7395	7440	7485	7531	7576	7622	7667	7712		6—28
67	7758	7803	7849	7894	7939	7985	8030	8075	8121	8166		7—32
68	8212	8257	8302	8348	8393	8439	8484	8529	8575	8620		8—37
69	8666	8711	8756	8802	8847	8892	8938	8983	9029	9074		9—41
9570	9119	9165	9210	9256	9301	9346	9392	9437	9482	9528		
71	9573	9619	9664	9709	9755	9800	9845	9891	9936	9982		
72	9810	0027	0118	0163	0208	0254	0299	0344	0390	0435		
73	0481	0526	0571	0617	0662	0707	0753	0798	0844	0889		
74	0934	0980	1025	1070	1116	1161	1206	1252	1297	1342		
75	1388	1433	1479	1524	1569	1615	1660	1705	1751	1796		
76	1841	1887	1932	1977	2023	2068	2113	2159	2204	2250		
77	2295	2340	2386	2431	2476	2522	2567	2612	2658	2703		
78	2748	2794	2839	2884	2930	2975	3020	3066	3111	3156		
79	3202	3247	3292	3338	3383	3428	3474	3519	3564	3610		
9580	3655	3700	3746	3791	3836	3882	3927	3972	4018	4063		45
81	4108	4154	4199	4244	4290	4335	4380	4426	4471	4516		1—4
82	4562	4607	4652	4698	4743	4788	4834	4879	4924	4970		2—9
83	5015	5060	5106	5151	5196	5241	5287	5332	5377	5423		3—13
84	5468	5513	5559	5604	5649	5695	5740	5785	5831	5876		4—18
85	5921	5966	6012	6057	6102	6148	6193	6238	6284	6329		5—22
86	6374	6420	6465	6510	6555	6601	6646	6691	6737	6782		6—27
87	6827	6873	6918	6963	7008	7054	7099	7144	7190	7235		7—31
88	7280	7326	7371	7416	7461	7507	7552	7597	7643	7688		8—36
89	7733	7778	7824	7869	7914	7960	8005	8050	8095	8141		9—40
9590	8186	8231	8277	8322	8367	8412	8458	8503	8548	8594		
91	8639	8684	8729	8775	8820	8865	8911	8956	9001	9046		
92	9092	9137	9182	9228	9273	9318	9363	9409	9454	9499		
93	9544	9590	9635	9680	9726	9771	9816	9861	9907	9952		
94	9997	0042	0088	0133	0178	0223	0269	0314	0359	0405		
95	9820	0450	0495	0540	0586	0631	0676	0721	0767	0812		
96	0902	0948	0993	1038	1083	1129	1174	1219	1264	1310		
97	1355	1400	1445	1491	1536	1581	1626	1672	1717	1762		
98	1807	1853	1898	1943	1988	2034	2079	2124	2169	2215		
99	2260	2305	2350	2396	2441	2486	2531	2577	2622	2667		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Z

# N.96000 L.982

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
9600	9822712	2758	2803	2848	2893	2939	2984	3029	3074	3119		
01	3165	3210	3255	3300	3346	3391	3436	3481	3527	3572		
02	3617	3662	3707	3753	3798	3843	3888	3934	3979	4024		
03	4069	4115	4160	4205	4250	4295	4341	4386	4431	4476		
04	4522	4567	4612	4657	4702	4748	4793	4838	4883	4928		
05	4974	5019	5064	5109	5155	5200	5245	5290	5335	5381		
06	5426	5471	5516	5561	5607	5652	5697	5742	5787	5833		
07	5878	5923	5968	6014	6059	6104	6149	6194	6240	6285		
08	6330	6375	6420	6466	6511	6556	6601	6646	6692	6737		
09	6782	6827	6872	6918	6963	7008	7053	7098	7143	7189		
9610	7234	7279	7324	7369	7415	7460	7505	7550	7595	7641		46
11	7686	7731	7776	7821	7867	7912	7957	8002	8047	8092		1—5
12	8138	8183	8228	8273	8318	8364	8409	8454	8499	8544		2—9
13	8589	8635	8680	8725	8770	8815	8860	8906	8951	8996		3—14
14	9041	9086	9132	9177	9222	9267	9312	9357	9403	9448		4—18
15	9493	9538	9583	9628	9674	9719	9764	9809	9854	9899		5—23
16	9945	9990	0035	0080	0125	0170	0216	0261	0306	0351		6—28
17	9830	9396	0441	0486	0532	0577	0622	0667	0712	0757		7—32
18	0848	0893	0938	0983	1028	1073	1119	1164	1209	1254		8—37
19	1299	1344	1390	1435	1480	1525	1570	1615	1660	1706		9—41
9620	1751	1796	1841	1886	1931	1976	2022	2067	2112	2157		
21	2202	2247	2292	2338	2383	2428	2473	2518	2563	2608		
22	2654	2699	2744	2789	2834	2879	2924	2969	3015	3060		
23	3105	3150	3195	3240	3285	3331	3376	3421	3466	3511		
24	3556	3601	3646	3692	3737	3782	3827	3872	3917	3962		
25	4007	4053	4098	4143	4188	4233	4278	4323	4368	4413		
26	4459	4504	4549	4594	4639	4684	4729	4774	4819	4865		
27	4910	4955	5000	5045	5090	5135	5180	5225	5271	5316		
28	5361	5406	5451	5496	5541	5586	5631	5677	5722	5767		
29	5812	5857	5902	5947	5992	6037	6082	6128	6173	6218		
9630	6263	6308	6353	6398	6443	6488	6533	6579	6624	6669		45
31	6714	6759	6804	6849	6894	6939	6984	7029	7075	7120		1—4
32	7165	7210	7255	7300	7345	7390	7435	7480	7525	7571		2—9
33	7616	7661	7706	7751	7796	7841	7886	7931	7976	8021		3—13
34	8066	8111	8157	8202	8247	8292	8337	8382	8427	8472		4—18
35	8517	8562	8607	8652	8697	8743	8788	8833	8878	8923		5—22
36	8968	9013	9058	9103	9148	9193	9238	9283	9328	9374		6—27
37	9419	9464	9509	9554	9599	9644	9689	9734	9779	9824		7—31
38	9869	9914	9959	0004	0049	0095	0140	0185	0230	0275		8—36
39	9840	0320	0365	0410	0455	0500	0545	0590	0635	0680		9—40
9640	0770	0815	0860	0905	0951	0996	1041	1086	1131	1176		
41	1221	1266	1311	1356	1401	1446	1491	1536	1581	1626		
42	1671	1716	1761	1806	1851	1896	1942	1987	2032	2077		
43	2122	2167	2212	2257	2302	2347	2392	2437	2482	2527		
44	2572	2617	2662	2707	2752	2797	2842	2887	2932	2977		
45	3022	3067	3112	3157	3202	3247	3292	3338	3383	3428		
46	3473	3518	3563	3608	3653	3698	3743	3788	3833	3878		
47	3923	3968	4013	4058	4103	4148	4193	4238	4283	4328		
48	4373	4418	4463	4508	4553	4598	4643	4688	4733	4778		
49	4823	4868	4913	4958	5003	5048	5093	5138	5183	5228		
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 96500 L.984

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9650	984	5273	5318	5363	5408	5453	5498	5543	5588	5633	5678	45
51		5723	5768	5813	5858	5903	5948	5993	6038	6083	6128	
52		6173	6218	6263	6308	6353	6398	6443	6488	6533	6578	
53		6623	6668	6713	6758	6803	6848	6893	6938	6983	7028	
54		7073	7118	7163	7208	7253	7298	7343	7388	7433	7478	
55		7523	7568	7613	7658	7703	7748	7793	7838	7883	7928	
56		7973	8018	8063	8107	8152	8197	8242	8287	8332	8377	
57		8422	8467	8512	8557	8602	8647	8692	8737	8782	8827	
58		8872	8917	8962	9007	9052	9097	9142	9187	9232	9277	
59		9322	9367	9412	9457	9502	9546	9591	9636	9681	9726	
9660		9771	9816	9861	9906	9951	9996	0041	0086	0131	0176	45
61	985	0221	0266	0311	0356	0401	0446	0491	0535	0580	0625	1-4
62		0670	0715	0760	0805	0850	0895	0940	0985	1030	1075	2-9
63		1120	1165	1210	1255	1300	1345	1389	1434	1479	1524	3-13
64		1569	1614	1659	1704	1749	1794	1839	1884	1929	1974	4-18
65		2019	2064	2108	2153	2198	2243	2288	2333	2378	2423	5-22
66		2468	2513	2558	2603	2648	2693	2737	2782	2827	2872	6-27
67		2917	2962	3007	3052	3097	3142	3187	3232	3277	3321	7-31
68		3366	3411	3456	3501	3546	3591	3636	3681	3726	3771	8-36
69		3816	3861	3905	3950	3995	4040	4085	4130	4175	4220	9-40
9670		4265	4310	4355	4399	4444	4489	4534	4579	4624	4669	
71		4714	4759	4804	4849	4893	4938	4983	5028	5073	5118	
72		5163	5208	5253	5298	5342	5387	5432	5477	5522	5567	
73		5612	5657	5702	5747	5791	5836	5881	5926	5971	6016	
74		6061	6106	6151	6196	6240	6285	6330	6375	6420	6465	
75		6510	6555	6600	6644	6689	6734	6779	6824	6869	6914	
76		6959	7003	7048	7093	7138	7183	7228	7273	7318	7363	
77		7407	7452	7497	7542	7587	7632	7677	7722	7766	7811	
78		7856	7901	7946	7991	8036	8081	8125	8170	8215	8260	
79		8305	8350	8395	8440	8484	8529	8574	8619	8664	8709	
9680		8754	8798	8843	8888	8933	8978	9023	9068	9112	9157	44
81		9202	9247	9292	9337	9382	9426	9471	9516	9561	9606	1-4
82		9651	9696	9740	9785	9830	9875	9920	9965	0010	0054	2-9
83	986	0099	0144	0189	0234	0279	0324	0368	0413	0458	0503	3-13
84		0548	0593	0637	0682	0727	0772	0817	0862	0907	0951	4-18
85		0996	1041	1086	1131	1176	1220	1265	1310	1355	1400	5-22
86		1445	1489	1534	1579	1624	1669	1714	1758	1803	1848	6-26
87		1893	1938	1983	2027	2072	2117	2162	2207	2252	2296	7-31
88		2341	2386	2431	2476	2521	2565	2610	2655	2700	2745	8-35
89		2790	2834	2879	2924	2969	3014	3058	3103	3148	3193	9-40
9690		3238	3283	3327	3372	3417	3462	3507	3551	3596	3641	
91		3686	3731	3776	3820	3865	3910	3955	4000	4044	4089	
92		4134	4179	4224	4268	4313	4358	4403	4448	4493	4537	
93		4582	4627	4672	4717	4761	4806	4851	4896	4941	4985	
94		5030	5075	5120	5165	5209	5254	5299	5344	5389	5433	
95		5478	5523	5568	5613	5657	5702	5747	5792	5836	5881	
96		5926	5971	6016	6060	6105	6150	6195	6240	6284	6329	
97		6374	6419	6464	6508	6553	6598	6643	6687	6732	6777	
98		6822	6867	6911	6956	7001	7046	7090	7135	7180	7225	
99		7270	7314	7359	7404	7449	7493	7538	7583	7628	7673	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

N. 97000 L. 986

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9700	9867717	7762	7807	7852	7896	7941	7986	8031	8076	8120		
01	8165	8210	8255	8299	8344	8389	8434	8478	8523	8568		
02	8613	8657	8702	8747	8792	8837	8881	8926	8971	9016		
03	9060	9105	9150	9195	9239	9284	9329	9374	9418	9463		
04	9508	9553	9597	9642	9687	9732	9776	9821	9866	9911		
05	9955	0000	0045	0090	0134	0179	0224	0269	0313	0358		
06	9870403	0448	0492	0537	0582	0627	0671	0716	0761	0806		
07	0850	0895	0940	0985	1029	1074	1119	1163	1208	1253		
08	1298	1342	1387	1432	1477	1521	1566	1611	1656	1700		
09	1745	1790	1834	1879	1924	1969	2013	2058	2103	2148		
9710	2192	2237	2282	2326	2371	2416	2461	2505	2550	2595		45
11	2640	2684	2729	2774	2818	2863	2908	2953	2997	3042		1—4
12	3087	3131	3176	3221	3266	3310	3355	3400	3444	3489		2—9
13	3534	3579	3623	3668	3713	3757	3802	3847	3892	3936		3—13
14	3981	4026	4070	4115	4160	4205	4249	4294	4339	4383		4—18
15	4428	4473	4517	4562	4607	4652	4696	4741	4786	4830		5—22
16	4875	4920	4964	5009	5054	5099	5143	5188	5233	5277		6—27
17	5322	5367	5411	5456	5501	5545	5590	5635	5680	5724		7—31
18	5769	5814	5858	5903	5948	5992	6037	6082	6126	6171		8—36
19	6216	6261	6305	6350	6395	6439	6484	6529	6573	6618		9—40
9720	6663	6707	6752	6797	6841	6886	6931	6975	7020	7065		
21	7109	7154	7199	7243	7288	7333	7377	7422	7467	7511		
22	7556	7601	7646	7690	7735	7780	7824	7869	7914	7958		
23	8003	8048	8092	8137	8182	8226	8271	8316	8360	8405		
24	8450	8494	8539	8583	8628	8673	8717	8762	8807	8851		
25	8896	8941	8985	9030	9075	9119	9164	9209	9253	9298		
26	9343	9387	9432	9477	9521	9566	9611	9655	9700	9745		
27	9789	9834	9878	9923	9968	0012	0057	0102	0146	0191		
28	9880236	0280	0325	0370	0414	0459	0503	0548	0593	0637		
29	0682	0727	0771	0816	0861	0905	0950	0994	1039	1084		
9730	1128	1173	1218	1262	1307	1352	1396	1441	1485	1530		44
31	1575	1619	1664	1709	1753	1798	1842	1887	1932	1976		1—4
32	2021	2066	2110	2155	2200	2244	2289	2333	2378	2423		2—9
33	2467	2512	2556	2601	2646	2690	2735	2780	2824	2869		3—13
34	2913	2958	3003	3047	3092	3136	3181	3226	3270	3315		4—18
35	3360	3404	3449	3493	3538	3583	3627	3672	3716	3761		5—22
36	3806	3850	3895	3939	3984	4029	4073	4118	4162	4207		6—26
37	4252	4296	4341	4386	4430	4475	4519	4564	4609	4653		7—31
38	4698	4742	4787	4831	4876	4921	4965	5010	5054	5099		8—35
39	5144	5188	5233	5277	5322	5367	5411	5456	5500	5545		9—40
9740	5590	5634	5679	5723	5768	5813	5857	5902	5946	5991		
41	6035	6080	6125	6169	6214	6258	6303	6348	6392	6437		
42	6481	6526	6570	6615	6660	6704	6749	6793	6838	6882		
43	6927	6972	7016	7061	7105	7150	7194	7239	7284	7328		
44	7373	7417	7462	7506	7551	7596	7640	7685	7729	7774		
45	7818	7863	7908	7952	7997	8041	8086	8130	8175	8220		
46	8264	8309	8353	8398	8442	8487	8531	8576	8621	8665		
47	8710	8754	8799	8843	8888	8932	8977	9022	9066	9111		
48	9155	9200	9244	9289	9333	9378	9423	9467	9512	9556		
49	9601	9645	9690	9734	9779	9823	9868	9913	9957	0002		
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9750	989	0046	0091	0135	0180	0224	0269	0313	0358	0402	0447	
51		0492	0536	0581	0625	0670	0714	0759	0803	0848	0892	
52		0937	0981	1026	1071	1115	1160	1204	1249	1293	1338	
53		1382	1427	1471	1516	1560	1605	1649	1694	1738	1783	
54		1828	1872	1917	1961	2006	2050	2095	2139	2184	2228	
55		2273	2317	2362	2406	2451	2495	2540	2584	2629	2673	
56		2718	2762	2807	2851	2896	2940	2985	3030	3074	3119	
57		3163	3208	3252	3297	3341	3386	3430	3475	3519	3564	
58		3608	3653	3697	3742	3786	3831	3875	3920	3964	4009	
59		4053	4098	4142	4187	4231	4276	4320	4365	4409	4454	
9760		4498	4543	4587	4632	4676	4721	4765	4810	4854	4899	45
61		4943	4988	5032	5077	5121	5166	5210	5255	5299	5344	1—4
62		5388	5433	5477	5521	5566	5610	5655	5699	5744	5788	2—9
63		5833	5877	5922	5966	6011	6055	6100	6144	6189	6233	3—13
64		6278	6322	6367	6411	6456	6500	6545	6589	6634	6678	4—18
65		6722	6767	6811	6856	6900	6945	6989	7034	7078	7123	5—22
66		7167	7212	7256	7301	7345	7390	7434	7478	7523	7567	6—27
67		7612	7656	7701	7745	7790	7834	7879	7923	7968	8012	7—31
68		8057	8101	8145	8190	8234	8279	8323	8368	8412	8457	8—36
69		8501	8546	8590	8634	8679	8723	8768	8812	8857	8901	9—40
9770		8946	8990	9035	9079	9123	9168	9212	9257	9301	9346	
71		9390	9435	9479	9523	9568	9612	9657	9701	9746	9790	
72		9835	9879	9923	9968	0012	0057	0101	0146	0190	0235	
73	990	0279	0323	0368	0412	0457	0501	0546	0590	0634	0679	
74		0723	0768	0812	0857	0901	0946	0990	1034	1079	1123	
75		1168	1212	1257	1301	1345	1390	1434	1479	1523	1568	
76		1612	1656	1701	1745	1790	1834	1878	1923	1967	2012	
77		2056	2101	2145	2189	2234	2278	2323	2367	2411	2456	
78		2500	2545	2589	2634	2678	2722	2767	2811	2856	2900	
79		2944	2989	3033	3078	3122	3167	3211	3255	3300	3344	
9780		3389	3433	3477	3522	3566	3611	3655	3699	3744	3788	44
81		3833	3877	3921	3966	4010	4055	4099	4143	4188	4232	1—4
82		4277	4321	4365	4410	4454	4499	4543	4587	4632	4676	2—9
83		4721	4765	4809	4854	4898	4942	4987	5031	5076	5120	3—13
84		5164	5209	5253	5298	5342	5386	5431	5475	5520	5564	4—18
85		5608	5653	5697	5741	5786	5830	5875	5919	5963	6008	5—22
86		6052	6096	6141	6185	6230	6274	6318	6363	6407	6452	6—26
87		6496	6540	6585	6629	6673	6718	6762	6806	6851	6895	7—31
88		6940	6984	7028	7073	7117	7161	7206	7250	7295	7339	8—35
89		7383	7428	7472	7516	7561	7605	7649	7694	7738	7783	9—40
9790		7827	7871	7916	7960	8004	8049	8093	8137	8182	8226	
91		8271	8315	8359	8404	8448	8492	8537	8581	8625	8670	
92		8714	8758	8803	8847	8891	8936	8980	9025	9069	9113	
93		9158	9202	9246	9291	9335	9379	9424	9468	9512	9557	
94		9601	9645	9690	9734	9778	9823	9867	9911	9956	0000	
95	990	0044	0089	0133	0177	0222	0266	0310	0355	0399	0443	
96		0488	0532	0576	0621	0665	0709	0754	0798	0842	0887	
97		0931	0975	1020	1064	1108	1153	1197	1241	1286	1330	
98		1374	1419	1463	1507	1552	1596	1640	1685	1729	1773	
99		1818	1862	1906	1951	1995	2039	2083	2128	2172	2216	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro

+

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9800	991	2261	2305	2349	2394	2438	2482	2527	2571	2615	2660	
01		2704	2748	2793	2837	2881	2925	2970	3014	3058	3103	
02		3147	3191	3236	3280	3324	3369	3413	3457	3501	3546	
03		3590	3634	3679	3723	3767	3812	3856	3900	3944	3989	
04		4033	4077	4122	4166	4210	4255	4299	4343	4387	4432	
05		4476	4520	4565	4609	4653	4697	4742	4786	4830	4875	
06		4919	4963	5007	5052	5096	5140	5185	5229	5273	5317	
07		5362	5406	5450	5495	5539	5583	5627	5672	5716	5760	
08		5805	5849	5893	5937	5982	6026	6070	6115	6159	6203	
09		6247	6292	6336	6380	6424	6469	6513	6557	6602	6646	
9810		6690	6734	6779	6823	6867	6911	6956	7000	7044	7088	45
11		7133	7177	7221	7266	7310	7354	7398	7443	7487	7531	1—4
12		7575	7620	7664	7708	7752	7797	7841	7885	7929	7974	2—9
13		8018	8062	8107	8151	8195	8239	8284	8328	8372	8416	3—13
14		8461	8505	8549	8593	8638	8682	8726	8770	8815	8859	4—18
15		8903	8947	8992	9036	9080	9124	9169	9213	9257	9301	5—22
16		9345	9390	9434	9478	9522	9567	9611	9655	9699	9744	6—27
17		9788	9832	9876	9921	9965	0009	0053	0098	0142	0186	7—31
18	992	0230	0275	0319	0363	0407	0451	0496	0540	0584	0628	8—36
19		0673	0717	0761	0805	0850	0894	0938	0982	1026	1071	9—40
9820		1115	1159	1203	1248	1292	1336	1380	1424	1469	1513	
21		1557	1601	1646	1690	1734	1778	1822	1867	1911	1955	
22		1999	2044	2088	2132	2176	2220	2265	2309	2353	2397	
23		2441	2486	2530	2574	2618	2662	2707	2751	2795	2839	
24		2884	2928	2972	3016	3060	3105	3149	3193	3237	3281	
25		3326	3370	3414	3458	3502	3547	3591	3635	3679	3723	
26		3768	3812	3856	3900	3944	3989	4033	4077	4121	4165	
27		4210	4254	4298	4342	4386	4431	4475	4519	4563	4607	
28		4651	4696	4740	4784	4828	4872	4917	4961	5005	5049	
29		5093	5138	5182	5226	5270	5314	5358	5403	5447	5491	
9830		5535	5579	5624	5668	5712	5756	5800	5844	5889	5933	44
31		5977	6021	6065	6109	6154	6198	6242	6286	6330	6375	1—4
32		6419	6463	6507	6551	6595	6640	6684	6728	6772	6816	2—9
33		6860	6905	6949	6993	7037	7081	7125	7170	7214	7258	3—13
34		7302	7346	7390	7435	7479	7523	7567	7611	7655	7699	4—18
35		7744	7788	7832	7876	7920	7964	8009	8053	8097	8141	5—22
36		8185	8229	8274	8318	8362	8406	8450	8494	8538	8583	6—26
37		8627	8671	8715	8759	8803	8847	8892	8936	8980	9024	7—31
38		9068	9112	9156	9201	9245	9289	9333	9377	9421	9465	8—35
39		9510	9554	9598	9642	9686	9730	9774	9819	9863	9907	9—40
9840		9951	9995	0039	0083	0128	0172	0216	0260	0304	0348	
41	993	0392	0436	0481	0525	0569	0613	0657	0701	0745	0789	
42		0834	0878	0922	0966	1010	1054	1098	1142	1187	1231	
43		1275	1319	1363	1407	1451	1495	1540	1584	1628	1672	
44		1716	1760	1804	1848	1893	1937	1981	2025	2069	2113	
45		2157	2201	2245	2290	2334	2378	2422	2466	2510	2554	
46		2598	2642	2687	2731	2775	2819	2863	2907	2951	2995	
47		3039	3083	3128	3172	3216	3260	3304	3348	3392	3436	
48		3480	3524	3569	3613	3657	3701	3745	3789	3833	3877	
49		3921	3965	4010	4054	4098	4142	4186	4230	4274	4318	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num.	0	1	2	3	4	5	6	7	8	9	D	Pts.
9850	9934362	4406	4450	4494	4539	4583	4627	4671	4715	4759		
51	4803	4847	4891	4935	4979	5024	5068	5112	5156	5200		
52	5244	5288	5332	5376	5420	5464	5508	5552	5597	5641		
53	5685	5729	5773	5817	5861	5905	5949	5993	6037	6081		
54	6125	6170	6214	6258	6302	6346	6390	6434	6478	6522		
55	6566	6610	6654	6698	6742	6787	6831	6875	6919	6963		
56	7007	7051	7095	7139	7183	7227	7271	7315	7359	7403		
57	7447	7492	7536	7580	7624	7668	7712	7756	7800	7844		
58	7888	7932	7976	8020	8064	8108	8152	8196	8240	8285		
59	8329	8373	8417	8461	8505	8549	8593	8637	8681	8725		
9860	8769	8813	8857	8901	8945	8989	9033	9077	9121	9165		
61	9209	9254	9298	9342	9386	9430	9474	9518	9562	9606		44
62	9650	9694	9738	9782	9826	9870	9914	9958	0002	0046		1—4
63	9940	0090	0134	0178	0222	0266	0310	0354	0398	0442		2—9
64	0531	0575	0619	0663	0707	0751	0795	0839	0883	0927		3—13
65	0971	1015	1059	1103	1147	1191	1235	1279	1323	1367		4—18
66	1411	1455	1499	1543	1587	1631	1675	1719	1763	1807		5—22
67	1851	1895	1939	1983	2027	2071	2115	2159	2203	2247		6—26
68	2291	2335	2379	2423	2467	2511	2555	2599	2643	2687		7—31
69	2731	2775	2819	2863	2907	2951	2995	3039	3083	3127		8—35
9870	3171	3215	3259	3303	3347	3391	3435	3479	3523	3567	44	9—40
71	3611	3655	3699	3743	3787	3831	3875	3919	3963	4007		
72	4051	4095	4139	4183	4227	4271	4315	4359	4403	4447		
73	4491	4535	4579	4623	4667	4711	4755	4799	4843	4887		
74	4931	4975	5019	5063	5107	5151	5195	5239	5283	5327		
75	5371	5415	5459	5503	5547	5591	5635	5679	5723	5767		
76	5811	5855	5899	5943	5987	6031	6075	6119	6163	6207		
77	6250	6294	6338	6382	6426	6470	6514	6558	6602	6646		
78	6690	6734	6778	6822	6866	6910	6954	6998	7042	7086		
79	7130	7174	7218	7262	7306	7350	7394	7438	7481	7525		
9880	7569	7613	7657	7701	7745	7789	7833	7877	7921	7965		43
81	8009	8053	8097	8141	8185	8229	8273	8317	8361	8404		1—4
82	8448	8492	8536	8580	8624	8668	8712	8756	8800	8844		2—9
83	8888	8932	8976	9020	9064	9108	9152	9195	9239	9283		3—13
84	9327	9371	9415	9459	9503	9547	9591	9635	9679	9723		4—17
85	9767	9811	9855	9898	9942	9986	0030	0074	0118	0162		5—21
86	9950	0206	0250	0294	0338	0382	0426	0470	0514	0557		6—26
87	0645	0689	0733	0777	0821	0865	0909	0953	0997	1041		7—30
88	1085	1128	1172	1216	1260	1304	1348	1392	1436	1480		8—34
89	1524	1568	1612	1655	1699	1743	1787	1831	1875	1919		9—39
9890	1963	2007	2051	2095	2139	2182	2226	2270	2314	2358		
91	2402	2446	2490	2534	2578	2621	2665	2709	2753	2797		
92	2841	2885	2929	2973	3017	3061	3104	3148	3192	3236		
93	3280	3324	3368	3412	3456	3500	3543	3587	3631	3675		
94	3719	3763	3807	3851	3895	3938	3982	4026	4070	4114		
95	4158	4202	4246	4290	4333	4377	4421	4465	4509	4553		
96	4597	4641	4685	4728	4772	4816	4860	4904	4948	4992		
97	5036	5080	5123	5167	5211	5255	5299	5343	5387	5431		
98	5474	5518	5562	5606	5650	5694	5738	5782	5825	5869		
99	5913	5957	6001	6045	6089	6133	6176	6220	6264	6308		
Num.	0	1	2	3	4	5	6	7	8	9	D	Pro.

# N. 99000 L.995

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9900	995	6352	6396	6440	6483	6527	6571	6615	6659	6703	6747	
01		6791	6834	6878	6922	6966	7010	7054	7098	7141	7185	
02		7229	7273	7317	7361	7405	7448	7492	7536	7580	7624	
03		7668	7712	7755	7799	7843	7887	7931	7975	8019	8062	
04		8106	8150	8194	8238	8282	8326	8369	8413	8457	8501	
05		8545	8589	8632	8676	8720	8764	8808	8852	8895	8939	
06		8983	9027	9071	9115	9159	9202	9246	9290	9334	9378	
07		9422	9465	9509	9553	9597	9641	9685	9728	9772	9816	
08		9860	9904	9948	9991	0035	0079	0123	0167	0211	0254	
09	996	0298	0342	0386	0430	0473	0517	0561	0605	0649	0693	
9910		0736	0780	0824	0868	0912	0956	0999	1043	1087	1131	44
11		1175	1218	1262	1306	1350	1394	1438	1481	1525	1569	1—4
12		1613	1657	1701	1744	1788	1832	1876	1920	1963	2007	2—9
13		2051	2095	2139	2182	2226	2270	2314	2358	2401	2445	3—13
14		2489	2533	2577	2621	2664	2708	2752	2796	2839	2883	4—18
15		2927	2971	3015	3059	3102	3146	3190	3234	3277	3321	5—22
16		3365	3409	3453	3496	3540	3584	3628	3672	3715	3759	6—26
17		3803	3847	3891	3934	3978	4022	4066	4110	4153	4197	7—31
18		4241	4285	4329	4372	4416	4460	4504	4547	4591	4635	8—35
19		4679	4723	4766	4810	4854	4898	4941	4985	5029	5073	9—40
9920		5117	5160	5204	5248	5292	5336	5379	5423	5467	5511	
21		5554	5598	5642	5686	5730	5773	5817	5861	5905	5948	
22		5992	6036	6080	6123	6167	6211	6255	6299	6342	6386	
23		6430	6474	6517	6561	6605	6649	6692	6736	6780	6824	
24		6867	6911	6955	6999	7043	7086	7130	7174	7218	7261	
25		7305	7349	7393	7436	7480	7524	7568	7611	7655	7699	
26		7743	7786	7830	7874	7918	7961	8005	8049	8093	8136	
27		8180	8224	8268	8311	8355	8399	8443	8486	8530	8574	
28		8618	8661	8705	8749	8793	8836	8880	8924	8968	9011	
29		9055	9099	9143	9186	9230	9274	9317	9361	9405	9449	
9930		9492	9536	9580	9624	9667	9711	9755	9799	9842	9886	43
31		9930	9973	0017	0061	0105	0148	0192	0236	0280	0323	1—4
32	997	0367	0411	0454	0498	0542	0586	0629	0673	0717	0761	2—9
33		0804	0848	0892	0935	0979	1023	1067	1110	1154	1198	3—13
34		1241	1285	1329	1373	1416	1460	1504	1547	1591	1635	4—17
35		1679	1722	1766	1810	1853	1897	1941	1985	2028	2072	5—21
36		2116	2159	2203	2247	2291	2334	2378	2422	2465	2509	6—26
37		2553	2597	2640	2684	2728	2771	2815	2859	2902	2946	7—30
38		2990	3034	3077	3121	3165	3208	3252	3296	3339	3383	8—34
39		3427	3471	3514	3558	3602	3645	3689	3733	3776	3820	9—39
9940		3864	3907	3951	3995	4039	4082	4126	4170	4213	4257	
41		4301	4344	4388	4432	4475	4519	4563	4606	4650	4694	
42		4737	4781	4825	4869	4912	4956	5000	5043	5087	5131	
43		5174	5218	5262	5305	5349	5393	5436	5480	5524	5567	
44		5611	5655	5698	5742	5786	5829	5873	5917	5960	6004	
45		6048	6091	6135	6179	6222	6266	6310	6353	6397	6441	
46		6484	6528	6572	6615	6659	6703	6746	6790	6834	6877	
47		6921	6965	7008	7052	7096	7139	7183	7227	7270	7314	
48		7358	7401	7445	7489	7532	7576	7620	7663	7707	7751	
49		7794	7838	7882	7925	7969	8012	8056	8100	8143	8187	
Num	0	1	2	3	4	5	6	7	8	9	D	Pts.

Num	0	1	2	3	4	5	6	7	8	9	D	Pts.
9950	997	8231	8274	8318	8362	8405	8449	8493	8536	8580	8624	
51		8667	8711	8754	8798	8842	8885	8929	8973	9016	9060	
52		9104	9147	9191	9235	9278	9322	9365	9409	9453	9496	
53		9540	9584	9627	9671	9714	9758	9802	9845	9889	9933	
54		9976	0020	0064	0107	0151	0195	0238	0282	0325	0369	
55	998	0413	0456	0500	0543	0587	0631	0674	0718	0762	0805	
56		0849	0892	0936	0980	1023	1067	1111	1154	1198	1241	
57		1285	1329	1372	1416	1459	1503	1547	1590	1634	1678	
58		1721	1765	1808	1852	1896	1939	1983	2026	2070	2114	
59		2157	2201	2244	2288	2332	2375	2419	2462	2506	2550	
9960		2593	2637	2681	2724	2768	2811	2855	2899	2942	2986	44
61		3029	3073	3117	3160	3204	3247	3291	3335	3378	3422	1-4
62		3465	3509	3552	3596	3640	3683	3727	3770	3814	3858	2-9
63		3901	3945	3988	4032	4076	4119	4163	4206	4250	4294	3-13
64		4337	4381	4424	4468	4511	4555	4599	4642	4686	4729	4-18
65		4773	4817	4860	4904	4947	4991	5034	5078	5122	5165	5-22
66		5209	5252	5296	5339	5383	5427	5470	5514	5557	5601	6-26
67		5645	5688	5732	5775	5819	5862	5906	5950	5993	6037	7-31
68		6080	6124	6167	6211	6255	6298	6342	6385	6429	6472	8-35
69		6516	6559	6603	6647	6690	6734	6777	6821	6864	6908	9-40
9970		6951	6995	7039	7082	7126	7169	7213	7256	7300	7344	
71		7387	7431	7474	7518	7561	7605	7648	7692	7736	7779	
72		7823	7866	7910	7953	7997	8040	8084	8127	8171	8215	
73		8258	8302	8345	8389	8432	8476	8519	8563	8606	8650	
74		8694	8737	8781	8824	8868	8911	8955	8998	9042	9085	
75		9129	9173	9216	9260	9303	9347	9390	9434	9477	9521	
76		9564	9608	9651	9695	9738	9782	9826	9869	9913	9956	
77	999	0000	0043	0087	0130	0174	0217	0261	0304	0348	0391	
78		0435	0478	0522	0566	0609	0653	0696	0740	0783	0827	
79		0870	0914	0957	1001	1044	1088	1131	1175	1218	1262	
9980		1305	1349	1392	1436	1479	1523	1566	1610	1653	1697	43
81		1740	1784	1828	1871	1915	1958	2002	2045	2089	2132	1-4
82		2176	2219	2263	2306	2350	2393	2437	2480	2524	2567	2-9
83		2611	2654	2698	2741	2785	2828	2872	2915	2959	3002	3-13
84		3046	3089	3133	3176	3220	3263	3307	3350	3394	3437	4-17
85		3481	3524	3568	3611	3655	3698	3742	3785	3829	3872	5-21
86		3916	3959	4003	4046	4089	4133	4176	4220	4264	4307	6-26
87		4350	4394	4437	4481	4524	4568	4611	4655	4698	4742	7-30
88		4785	4829	4872	4916	4959	5003	5046	5090	5133	5177	8-34
89		5220	5264	5307	5350	5394	5437	5481	5524	5568	5611	9-39
9990		5655	5698	5742	5785	5829	5872	5916	5959	6003	6046	
91		6089	6133	6176	6220	6263	6307	6350	6394	6437	6481	
92		6524	6568	6611	6655	6698	6741	6785	6828	6872	6915	
93		6959	7002	7046	7089	7133	7176	7220	7263	7306	7350	
94		7393	7437	7480	7524	7567	7611	7654	7698	7741	7784	
95		7828	7871	7915	7958	8002	8045	8089	8132	8176	8219	
96		8262	8306	8349	8393	8436	8480	8523	8566	8610	8653	
97		8697	8740	8784	8827	8871	8914	8957	9001	9044	9088	
98		9131	9175	9218	9262	9305	9348	9392	9435	9479	9522	
99		9566	9609	9652	9696	9739	9783	9826	9870	9913	9956	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.

Num	0	1	2	3	4	5	6	7	8	9	D Pro.
10000	00000000	0043	0087	0130	0174	0217	0261	0304	0347	0391	
01	0434	0478	0521	0564	0608	0651	0695	0738	0782	0825	
02	0868	0912	0955	0999	1042	1086	1129	1172	1216	1259	
03	1303	1346	1389	1433	1476	1520	1563	1607	1650	1693	
04	1737	1780	1824	1867	1910	1954	1997	2041	2084	2127	
05	2171	2214	2258	2301	2345	2388	2431	2475	2518	2562	
06	2605	2648	2692	2735	2779	2822	2865	2909	2952	2996	
07	3039	3082	3126	3169	3213	3256	3299	3343	3386	3430	
08	3473	3516	3560	3603	3646	3690	3733	3777	3820	3863	
09	3907	3950	3994	4037	4080	4124	4167	4211	4254	4297	
10010	4341	4384	4427	4471	4514	4558	4601	4644	4688	4731	44
11	4775	4818	4861	4905	4948	4991	5035	5078	5122	5165	1—4
12	5208	5252	5295	5338	5382	5425	5469	5512	5555	5599	2—9
13	5642	5685	5729	5772	5816	5859	5902	5946	5989	6032	3—13
14	6076	6119	6163	6206	6249	6293	6336	6379	6423	6466	4—18
15	6509	6553	6596	6640	6683	6726	6770	6813	6856	6900	5—22
16	6943	6986	7030	7073	7117	7160	7203	7247	7290	7333	6—26
17	7377	7420	7463	7507	7550	7593	7637	7680	7724	7767	7—31
18	7810	7854	7897	7940	7984	8027	8070	8114	8157	8200	8—35
19	8244	8287	8330	8374	8417	8460	8504	8547	8590	8634	9—40
10020	8677	8721	8764	8807	8851	8894	8937	8981	9024	9067	
21	9111	9154	9197	9241	9284	9327	9371	9414	9457	9501	
22	9544	9587	9631	9674	9717	9761	9804	9847	9891	9934	
23	9977	0021	0064	0107	0151	0194	0237	0281	0324	0367	
24	0010411	0454	0497	0541	0584	0627	0670	0714	0757	0800	
25	0844	0887	0930	0974	1017	1060	1104	1147	1190	1234	
26	1277	1320	1364	1407	1450	1494	1537	1580	1623	1667	
27	1710	1753	1797	1840	1883	1927	1970	2013	2057	2100	
28	2143	2187	2230	2273	2316	2360	2403	2446	2490	2533	
29	2576	2620	2663	2706	2749	2793	2836	2879	2923	2966	
10030	3009	3053	3096	3139	3182	3226	3269	3312	3356	3399	43
31	3442	3486	3529	3572	3615	3659	3702	3745	3789	3832	1—4
32	3875	3918	3962	4005	4048	4092	4135	4178	4221	4265	2—9
33	4308	4351	4395	4438	4481	4525	4568	4611	4654	4698	3—13
34	4741	4784	4827	4871	4914	4957	5001	5044	5087	5130	4—17
35	5174	5217	5260	5304	5347	5390	5433	5477	5520	5563	5—21
36	5606	5650	5693	5736	5780	5823	5866	5909	5953	5996	6—26
37	6039	6082	6126	6169	6212	6256	6299	6342	6385	6429	7—30
38	6472	6515	6558	6602	6645	6688	6731	6775	6818	6861	8—34
39	6904	6948	6991	7034	7078	7121	7164	7207	7251	7294	9—39
10040	7337	7380	7424	7467	7510	7553	7597	7640	7683	7726	
41	7770	7813	7856	7899	7943	7986	8029	8072	8116	8159	
42	8202	8245	8289	8332	8375	8418	8462	8505	8548	8591	
43	8635	8678	8721	8764	8808	8851	8894	8937	8981	9024	
44	9067	9110	9153	9197	9240	9283	9326	9370	9413	9456	
45	9499	9543	9586	9629	9672	9716	9759	9802	9845	9888	
46	9932	9975	0018	0061	0105	0148	0191	0234	0278	0321	
47	0020364	0407	0450	0494	0537	0580	0623	0667	0710	0753	
48	0796	0839	0883	0926	0969	1012	1056	1099	1142	1185	
49	1228	1272	1315	1358	1401	1444	1488	1531	1574	1617	
Num	0	1	2	3	4	5	6	7	8	9	D Pro.

Num	0	1	2	3	4	5	6	7	8	9	D	Pro.
100500	002	1661	1704	1747	1790	1833	1877	1920	1963	2006	2049	
51	2093	2136	2179	2222	2266	2309	2352	2395	2438	2482		
52	2525	2568	2611	2654	2698	2741	2784	2827	2870	2914		
53	2957	3000	3043	3086	3130	3173	3216	3259	3302	3346		
54	3389	3432	3475	3518	3562	3605	3648	3691	3734	3778		
55	3821	3864	3907	3950	3993	4037	4080	4123	4166	4209		
56	4253	4296	4339	4382	4425	4469	4512	4555	4598	4641		
57	4684	4728	4771	4814	4857	4900	4944	4987	5030	5073		
58	5116	5159	5203	5246	5289	5332	5375	5419	5462	5505		
59	5548	5591	5634	5678	5721	5764	5807	5850	5893	5937		
100600	5980	6023	6066	6109	6152	6196	6239	6282	6325	6368		44
61	6411	6455	6498	6541	6584	6627	6670	6714	6757	6800		1-4
62	6843	6886	6929	6973	7016	7059	7102	7145	7188	7232		2-9
63	7275	7318	7361	7404	7447	7491	7534	7577	7620	7663		3-13
64	7706	7749	7793	7836	7879	7922	7965	8008	8051	8095		4-18
65	8138	8181	8224	8267	8310	8353	8397	8440	8483	8526		5-22
66	8569	8612	8655	8699	8742	8785	8828	8871	8914	8957		6-26
67	9001	9044	9087	9130	9173	9216	9259	9303	9346	9389		7-31
68	9432	9475	9518	9561	9605	9648	9691	9734	9777	9820		8-35
69	9863	9906	9950	9993	0036	0079	0122	0165	0208	0252		9-49
100700	003	0295	0338	0381	0424	0467	0510	0553	0597	0640	0683	
71	0726	0769	0812	0855	0898	0942	0985	1028	1071	1114		
72	1157	1200	1243	1286	1330	1373	1416	1459	1502	1545		
73	1588	1631	1675	1718	1761	1804	1847	1890	1933	1976		
74	2019	2063	2106	2149	2192	2235	2278	2321	2364	2407		
75	2450	2494	2537	2580	2623	2666	2709	2752	2795	2838		
76	2882	2925	2968	3011	3054	3097	3140	3183	3226	3269		
77	3313	3356	3399	3442	3485	3528	3571	3614	3657	3700		
78	3743	3787	3830	3873	3916	3959	4002	4045	4088	4131		
79	4174	4217	4261	4304	4347	4390	4433	4476	4519	4562		
100800	4605	4648	4691	4735	4778	4821	4864	4907	4950	4993		43
81	5036	5079	5122	5165	5208	5251	5295	5338	5381	5424		1-4
82	5467	5510	5553	5596	5639	5682	5725	5768	5811	5855		2-9
83	5898	5941	5984	6027	6070	6113	6156	6199	6242	6285		3-13
84	6328	6371	6414	6458	6501	6544	6587	6630	6673	6716		4-17
85	6759	6802	6845	6888	6931	6974	7017	7060	7103	7147		5-21
86	7190	7233	7276	7319	7362	7405	7448	7491	7534	7577		6-26
87	7620	7663	7706	7749	7792	7835	7878	7922	7965	8008		7-30
88	8051	8094	8137	8180	8223	8266	8309	8352	8395	8438		8-34
89	8481	8524	8567	8610	8653	8696	8739	8782	8825	8869		9-39
100900	8912	8955	8998	9041	9084	9127	9170	9213	9256	9299		
91	9342	9385	9428	9471	9514	9557	9600	9643	9686	9729		
92	9772	9815	9858	9901	9944	9988	0031	0074	0117	0160		
93	004	0203	0246	0289	0332	0375	0418	0461	0504	0547		
94	0633	0676	0719	0762	0805	0848	0891	0934	0977	1020		
95	1063	1106	1149	1192	1235	1278	1321	1364	1407	1450		
96	1493	1536	1579	1622	1665	1708	1751	1794	1837	1881		
97	1924	1967	2010	2053	2096	2139	2182	2225	2268	2311		
98	2354	2397	2440	2483	2526	2569	2612	2655	2698	2741		
99	2784	2827	2870	2913	2956	2999	3042	3085	3128	3171	43	
Num	0	1	2	3	4	5	6	7	8	9	D	Pro.





A  
T A B L E  
O F  
*Natural and Logarithmic*  
Sines, Tangents  
and Secants.



B b

# o Degree

M	N.Sin.	L. Sine	Diff.	Co-secants		M	N.Ta.	L. Tan.	Diff.
					Infinite				
0	0,000					0	0,000		
1	2,909	6.4637261	3010300	13.5362739	34377468	1	2,909	6.4637261	3010301
2	5,818	6.7647561	1760912	13.2352439	17188735	2	5,818	6.7647561	1760913
3	8,727	6.9408473	1249387	13.0591527	11459157	3	8,727	6.9408473	1249388
4	11,636	7.0657860	969100	12.9342140	85943689	4	11,636	7.0657860	969101
5	14,544	7.1626960	791811	12.8373040	68754966	5	14,544	7.1626960	791812
6	17,453	7.2418778	669468	12.7581229	57295806	6	17,453	7.2418778	669469
7	20,362	7.3088239	579918	12.6911761	49110702	7	20,362	7.3088239	579919
8	23,271	7.3668157	511524	12.6331843	42971873	8	23,271	7.3668157	511525
9	26,180	7.4179681	457574	12.5820119	38197230	9	26,180	7.4179681	457575
10	29,089	7.4637255	413926	12.5362745	34377516	10	29,089	7.4637255	413927
11	31,998	7.5051181	377884	12.4948819	31252297	11	31,998	7.5051181	377885
12	34,907	7.5429065	347619	12.4570935	28647948	12	34,907	7.5429065	347620
13	37,815	7.5776684	321846	12.4223316	26444269	13	37,815	7.5776684	321847
14	40,724	7.6098530	299630	12.3901470	24555402	14	40,724	7.6098530	299631
15	43,633	7.6398160	280285	12.3601840	22918385	15	43,633	7.6398160	280286
16	46,542	7.6678445	263288	12.3321555	21485995	16	46,542	7.6678445	263289
17	49,451	7.6941733	248233	12.3058267	20222122	17	49,451	7.6941733	248234
18	52,360	7.7189966	234809	12.2810034	19098686	18	52,360	7.7189966	234810
19	55,269	7.7424775	222762	12.2575225	18093494	19	55,269	7.7424775	222763
20	58,177	7.7647537	211890	12.2352463	17188831	20	58,177	7.7647537	211891
21	61,086	7.7859427	202031	12.2140573	16370325	21	61,086	7.7859427	202032
22	63,995	7.8061458	193049	12.1938542	15626228	22	63,995	7.8061458	193050
23	66,904	7.8254507	184831	12.1745493	14946837	23	66,904	7.8254507	184832
24	69,813	7.8439338	177285	12.1560662	14324061	24	69,813	7.8439338	177286
25	72,721	7.8616623	170330	12.1383377	13751108	25	72,721	7.8616623	170331
26	75,630	7.8786953	163901	12.1213047	13222229	26	75,630	7.8786953	163902
27	78,539	7.8950854	157939	12.1049146	12732826	27	78,539	7.8950854	157940
28	81,448	7.9108793	152397	12.0891207	12277803	28	81,448	7.9108793	152398
29	84,357	7.9261190	147229	12.0738810	11854440	29	84,357	7.9261190	147230
30	87,265	7.9408419	142400	12.0591581	11459301	30	87,265	7.9408419	142401
31	90,174	7.9550819	137879	12.0449181	11089656	31	90,174	7.9550819	137880
32	93,083	7.9688698	133636	12.0311302	10743114	32	93,083	7.9688698	133637
33	95,992	7.9822334	129646	12.0177666	10417574	33	95,992	7.9822334	129647
34	98,900	7.9951980	125887	12.0048020	10111183	34	98,900	7.9951980	125888
35	101,809	8.0077867	122340	11.9922133	98223033	35	101,809	8.0077867	122341
36	104,718	8.0200207	118988	11.9799793	95494711	36	104,718	8.0200207	118989
37	107,627	8.0319195	115814	11.9680805	92913869	37	107,627	8.0319195	115815
38	110,535	8.0435009	112805	11.9564991	90468863	38	110,535	8.0435009	112806
39	113,444	8.0547814	109949	11.9452186	88149244	39	113,444	8.0547814	109950
40	116,353	8.0657763	107234	11.9342237	85945609	40	116,353	8.0657763	107235
41	119,261	8.0764997	104645	11.9235003	83849470	41	119,261	8.0764997	104646
42	122,170	8.0869646	102186	11.9130354	81853150	42	122,170	8.0869646	102187
43	125,079	8.0971832	99837	11.9028168	79945684	43	125,079	8.0971832	99838
44	127,987	8.1071669	97593	11.8928331	78132742	44	127,987	8.1071669	97594
45	130,896	8.1169262	95448	11.8830738	76396554	45	130,896	8.1169262	95449
46	133,805	8.1264710	93394	11.8735290	74735856	46	133,805	8.1264710	93395
47	136,713	8.1358104	91428	11.8641896	73145827	47	136,713	8.1358104	91429
48	139,622	8.1449532	89543	11.8550468	71622052	48	139,622	8.1449532	89544
49	142,530	8.1539075	87733	11.8460925	70160474	49	142,530	8.1539075	87734
50	145,439	8.1626808	85996	11.8373192	68757360	50	145,439	8.1626808	85997
51	148,348	8.1712804	84325	11.8287196	67409272	51	148,348	8.1712804	84326
52	151,256	8.1797129	82719	11.8202871	66113036	52	151,256	8.1797129	82720
53	154,165	8.1879848	81172	11.8120152	64865716	53	154,165	8.1879848	81173
54	157,073	8.1961020	79683	11.8039896	63664595	54	157,073	8.1961020	79684
55	159,982	8.2040703	78246	11.7959297	62507153	55	159,982	8.2040703	78247
56	162,890	8.2118949	76862	11.7881051	61391550	56	162,890	8.2118949	76863
57	165,799	8.2195811	75524	11.7804185	60314110	57	165,799	8.2195811	75525
58	168,707	8.2271335	74233	11.7728665	59274308	58	168,707	8.2271335	74234
59	171,616	8.2345568	72985	11.7654432	58269755	59	171,616	8.2345568	72986
60	174,524	8.2418553		11.7581441	57298681	60	174,524	8.2418553	
Co-fines				L. Sec.	N. Sec.	Co-tangents			

89 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-sines			
	Infinite	50								
	13.5362739	34377467	59	0	10000,000	10,0000000	0	10,0000000	10000,000	50
100301	13.2352438	17188732	58	1	10000,000	10,0000000	1	9,9999999	9999,999	51
1760913	13.0591525	11459153	57	2	10000,002	10,0000001	2	9,9999997	9999,997	52
1249388	12.9142137	8594363	56	3	10000,004	10,0000002	3	9,9999995	9999,995	53
969101	12.8373036	5875488	55	4	10000,007	10,0000003	4	9,9999992	9999,992	54
791814	12.7581222	5729572	54	5	10000,011	10,0000005	5	9,9999989	9999,989	55
669470	12.6911752	4911060	53	6	10000,015	10,0000007	6	9,9999985	9999,985	56
579921	12.6331831	4297175	52	7	10000,021	10,0000009	7	9,9999981	9999,981	57
511527	12.5820304	3819709	51	8	10000,027	10,0000012	8	9,9999978	9999,978	58
457577	12.5362727	3437737	50	9	10000,034	10,0000015	9	9,9999975	9999,975	59
413930	12.4948797	3125213	49	10	10000,042	10,0000018	10	9,9999972	9999,972	60
377888	12.4570909	2864777	48	11	10000,051	10,0000022	11	9,9999968	9999,968	61
347624	12.4223285	2644408	47	12	10000,061	10,0000026	12	9,9999964	9999,964	62
321851	12.3901434	2455198	46	13	10000,072	10,0000031	13	9,9999960	9999,960	63
299635	12.3601799	2291816	45	14	10000,083	10,0000036	14	9,9999956	9999,956	64
280291	12.3321508	2148576	44	15	10000,095	10,0000041	15	9,9999952	9999,952	65
263294	12.3058214	2022187	43	16	10000,108	10,0000047	16	9,9999948	9999,948	66
248240	12.2809974	1909841	42	17	10000,122	10,0000053	17	9,9999944	9999,944	67
234815	12.2575159	1809322	41	18	10000,137	10,0000060	18	9,9999940	9999,940	68
222769	12.2352390	1718854	40	19	10000,153	10,0000066	19	9,9999936	9999,936	69
211898	12.2140492	1637001	39	20	10000,169	10,0000073	20	9,9999932	9999,932	70
202039	12.1938453	1562590	38	21	10000,187	10,0000081	21	9,9999927	9999,927	71
193057	12.1745396	1494650	37	22	10000,205	10,0000089	22	9,9999923	9999,923	72
184840	12.1560556	1432371	36	23	10000,224	10,0000097	23	9,9999919	9999,919	73
177294	12.1383262	1375074	35	24	10000,244	10,0000106	24	9,9999915	9999,915	74
170339	12.1212923	1322185	34	25	10000,264	10,0000115	25	9,9999911	9999,911	75
163911	12.1049012	1273213	33	26	10000,286	10,0000124	26	9,9999907	9999,907	76
157950	12.0891062	1227739	32	27	10000,308	10,0000134	27	9,9999903	9999,903	77
152406	12.0738656	1185401	31	28	10000,332	10,0000144	28	9,9999899	9999,899	78
147240	12.0591416	1145886	30	29	10000,356	10,0000155	29	9,9999895	9999,895	79
142412	12.0449004	1108920	29	30	10000,381	10,0000165	30	9,9999891	9999,891	80
137890	12.0311114	1074264	28	31	10000,407	10,0000177	31	9,9999887	9999,887	81
133648	12.0177466	1041709	27	32	10000,433	10,0000188	32	9,9999883	9999,883	82
129658	12.0047608	1011060	26	33	10000,461	10,0000200	33	9,9999879	9999,879	83
125900	11.9921908	982179	25	34	10000,489	10,0000212	34	9,9999875	9999,875	84
122353	11.9799555	954894	24	35	10000,518	10,0000225	35	9,9999871	9999,871	85
119001	11.9680554	929084	23	36	10000,548	10,0000238	36	9,9999867	9999,867	86
115828	11.9564726	904633	22	37	10000,579	10,0000252	37	9,9999863	9999,863	87
112820	11.9451906	881435	21	38	10000,611	10,0000265	38	9,9999859	9999,859	88
109963	11.9341943	859397	20	39	10000,644	10,0000279	39	9,9999855	9999,855	89
107249	11.9234694	838435	19	40	10000,677	10,0000294	40	9,9999851	9999,851	90
104664	11.9130030	818470	18	41	10000,711	10,0000309	41	9,9999847	9999,847	91
102202	11.9027828	799434	17	42	10000,746	10,0000324	42	9,9999843	9999,843	92
99853	11.8927975	781263	16	43	10000,782	10,0000340	43	9,9999839	9999,839	93
97609	11.8830366	763900	15	44	10000,819	10,0000356	44	9,9999835	9999,835	94
95465	11.8734901	747291	14	45	10000,857	10,0000372	45	9,9999831	9999,831	95
93411	11.8641490	731389	13	46	10000,895	10,0000389	46	9,9999827	9999,827	96
91446	11.8550044	716150	12	47	10000,935	10,0000406	47	9,9999823	9999,823	97
89560	11.8460484	701533	11	48	10000,975	10,0000423	48	9,9999819	9999,819	98
87751	11.8372733	687500	10	49	10001,010	10,0000441	49	9,9999815	9999,815	99
86015	11.8286718	674018	9	50	10001,058	10,0000459	50	9,9999811	9999,811	100
84344	11.8202374	661054	8	51	10001,101	10,0000478	51	9,9999807	9999,807	
82738	11.8119636	648580	7	52	10001,144	10,0000497	52	9,9999803	9999,803	
81192	11.8038444	636507	6	53	10001,189	10,0000516	53	9,9999799	9999,799	
79703	11.7958741	624991	5	54	10001,234	10,0000536	54	9,9999795	9999,795	
78267	11.7880474	613829	4	55	10001,280	10,0000556	55	9,9999791	9999,791	
76882	11.7803592	603058	3	56	10001,327	10,0000576	56	9,9999787	9999,787	
75545	11.7728047	592681	2	57	10001,375	10,0000597	57	9,9999783	9999,783	
74255	11.7653792	582611	1	58	10001,423	10,0000618	58	9,9999779	9999,779	
73007	11.7580785	572899	0	59	10001,473	10,0000640	59	9,9999775	9999,775	
				60	10001,523	10,0000662	60	9,9999771	9999,771	
Diff.	L. Tang.	N. Tan.	M	Co-Secants		D	L. Sine N. Sine			

# I Degree

M.N. Sin.	L. Sine	Diff.	Co-secants	
0 174,524	8.2418553		11.7581447	572986,88 50
1 177,432	8.2490332	71779	11.7509668	563594,62 59
2 180,341	8.2560943	70611	11.7439057	554505,34 58
3 183,249	8.2630424	69481	11.7369576	545704,64 57
4 186,158	8.2698810	68386	11.7301190	537178,96 56
5 189,066	8.2766136	67326	11.7233864	528915,64 55
6 191,974	8.2832434	66298	11.7167566	520902,72 54
7 194,883	8.2897734	65300	11.7102266	513129,02 53
8 197,791	8.2962067	64333	11.7037933	505583,96 52
9 200,699	8.3025460	63393	11.6974540	498257,62 51
10 203,608	8.3087941	62481	11.6912059	491140,62 50
11 206,516	8.3149536	61595	11.6850464	484224,11 49
12 209,424	8.3210269	60733	11.6789731	477499,74 48
13 212,332	8.3270163	59894	11.6729837	470959,61 47
14 215,241	8.3329243	59080	11.6670757	464596,25 46
15 218,149	8.3387529	58286	11.6612471	458402,60 45
16 221,057	8.3445043	57514	11.6554957	452371,95 44
17 223,965	8.3501805	56762	11.6498195	446497,95 43
18 226,873	8.3557835	56030	11.6442165	440774,58 42
19 229,781	8.3613150	55315	11.6386850	435196,12 41
20 232,690	8.3667769	54619	11.6332231	429757,13 40
21 235,598	8.3721710	53941	11.6278290	424452,45 39
22 238,506	8.3774988	53278	11.6225012	419277,17 38
23 241,414	8.3827620	52632	11.6172380	414226,60 37
24 244,322	8.3879622	52002	11.6120378	409296,30 36
25 247,230	8.3931008	51386	11.6068992	404482,01 35
26 250,138	8.3981793	50785	11.6018207	399779,69 34
27 253,046	8.4031990	50197	11.5968010	395185,49 33
28 255,954	8.4081614	49624	11.5918386	390695,71 32
29 258,862	8.4130676	49062	11.5869324	386306,83 31
30 261,769	8.4179190	48514	11.5820810	382015,50 30
31 264,677	8.4227168	47978	11.5772832	377818,49 29
32 267,585	8.4274621	47453	11.5725379	373712,73 28
33 270,493	8.4321561	46940	11.5678439	369695,28 27
34 273,401	8.4367999	46438	11.5632001	365763,32 26
35 276,309	8.4413944	45945	11.5586056	361914,14 25
36 279,216	8.4459409	45465	11.5540591	358145,17 24
37 282,124	8.4504402	44993	11.5495598	354453,91 23
38 285,032	8.4548934	44532	11.5451066	350838,00 22
39 287,940	8.4593013	44079	11.5406987	347295,15 21
40 290,847	8.4636649	43636	11.5363351	343823,16 20
41 293,755	8.4679850	43201	11.5320150	340419,94 19
42 296,662	8.4722626	42776	11.5277374	337083,45 18
43 299,570	8.4764984	42358	11.5235016	333811,76 17
44 302,478	8.4806932	41948	11.5193068	330603,00 16
45 305,385	8.4848479	41547	11.5151521	327455,37 15
46 308,293	8.4889632	41153	11.5110368	324367,13 14
47 311,200	8.4930398	40766	11.5069602	321336,63 13
48 314,108	8.4970784	40386	11.5029216	318362,25 12
49 317,015	8.5010798	40014	11.4989202	315442,46 11
50 319,922	8.5050447	39645	11.4949553	312575,77 10
51 322,830	8.5089736	39289	11.4910264	309760,74 9
52 325,737	8.5128678	38937	11.4871327	306995,98 8
53 328,644	8.5167264	38591	11.4832736	304280,17 7
54 331,552	8.5205514	38250	11.4794486	301612,01 6
55 334,459	8.5243430	37916	11.4756570	298990,26 5
56 337,366	8.5281017	37587	11.4718983	296413,73 4
57 340,274	8.5318281	37264	11.4681719	293881,24 3
58 343,181	8.5355228	36947	11.4644772	291391,69 2
59 346,088	8.5391863	36635	11.4608133	288943,98 1
60 348,995	8.5428192	36329	11.4571808	286537,08 0
Co-sines		Diff.	L. Sec.	N. Sec. M

M.N. Tan.	L. Tan.	Diff.
0 174,551	8.2419215	71800
1 177,460	8.2491013	70634
2 180,370	8.2561649	69504
3 183,280	8.2631153	68410
4 186,190	8.2699563	67349
5 189,100	8.2766912	66322
6 192,010	8.2833234	65325
7 194,920	8.2898559	64358
8 197,830	8.2962917	63418
9 200,740	8.3026335	62507
10 203,650	8.3088842	61620
11 206,560	8.3150462	60759
12 209,470	8.3211221	59922
13 212,380	8.3271143	59106
14 215,291	8.3330249	58314
15 218,201	8.3388563	57542
16 221,111	8.3446105	56790
17 224,021	8.3502895	56058
18 226,932	8.3558953	55344
19 229,842	8.3614297	54648
20 232,753	8.3668945	53970
21 235,663	8.3722915	53308
22 238,574	8.3776223	52663
23 241,484	8.3828886	52032
24 244,395	8.3880918	51418
25 247,305	8.3932336	50816
26 250,216	8.3983152	50225
27 253,127	8.4033381	49645
28 256,038	8.4083037	49072
29 258,948	8.4132132	48507
30 261,859	8.4180679	48011
31 264,770	8.4228690	47486
32 267,681	8.4276176	46974
33 270,592	8.4323150	46472
34 273,503	8.4369622	45982
35 276,414	8.4415603	45500
36 279,325	8.4461105	45028
37 282,236	8.4506131	44566
38 285,148	8.4550699	44115
39 288,059	8.4594814	43672
40 290,970	8.4638486	43235
41 293,882	8.4681725	42811
42 296,793	8.4724538	42398
43 299,705	8.4766930	41987
44 302,616	8.4808920	41585
45 305,528	8.4850505	41191
46 308,439	8.4891696	40806
47 311,351	8.4932502	40426
48 314,263	8.4973228	40054
49 317,174	8.5013982	39687
50 320,086	8.5054671	39333
51 322,998	8.5095201	38977
52 325,910	8.5135698	38631
53 328,822	8.5176166	38294
54 331,734	8.5216602	37958
55 334,646	8.5256910	37630
56 337,558	8.5297190	37307
57 340,471	8.5337452	36990
58 343,383	8.5377787	36678
59 346,295	8.5394466	36372
60 349,208	8.5430838	
Co-tangents		Diff.

# 1 Degree

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-lines		
71800	11.7580785	572899.62	60	0	10001.523	10.0000662	22	9.9999338	9998.477	60
70634	11.7508985	563505.90	59	1	10001.574	10.0000684	22	9.9999316	9998.426	59
69504	11.7438351	554415.17	58	2	10001.627	10.0000706	23	9.9999294	9998.374	58
68410	11.7368847	545613.00	57	3	10001.679	10.0000729	23	9.9999271	9998.321	57
67349	11.7300437	537085.87	56	4	10001.733	10.0000753	24	9.9999247	9998.267	56
66322	11.7233088	528821.09	55	5	10001.788	10.0000776	24	9.9999224	9998.213	55
65325	11.7166766	520806.73	54	6	10001.843	10.0000800	24	9.9999200	9998.157	54
64358	11.7101441	513031.57	53	7	10001.900	10.0000825	25	9.9999175	9998.101	53
63418	11.7037083	505485.06	52	8	10001.957	10.0000850	25	9.9999150	9998.044	52
62507	11.6973665	498157.26	51	9	10002.015	10.0000875	25	9.9999125	9997.986	51
61620	11.6911158	491038.81	50	10	10002.073	10.0000900	25	9.9999100	9997.927	50
60759	11.6849538	484120.84	49	11	10002.133	10.0000926	26	9.9999074	9997.867	49
59922	11.6787779	477395.01	48	12	10002.194	10.0000953	26	9.9999047	9997.807	48
59106	11.6725857	470853.43	47	13	10002.255	10.0000979	26	9.9999021	9997.745	47
58314	11.6663975	464488.62	46	14	10002.317	10.0001006	27	9.9998994	9997.683	46
57542	11.6601134	458293.51	45	15	10002.380	10.0001034	27	9.9998966	9997.620	45
56790	11.6538295	452267.41	44	16	10002.444	10.0001061	27	9.9998939	9997.556	44
56058	11.6475405	446355.06	43	17	10002.509	10.0001089	28	9.9998911	9997.492	43
55344	11.6412477	440661.13	42	18	10002.575	10.0001118	29	9.9998882	9997.426	42
54648	11.6349570	435081.22	41	19	10002.641	10.0001147	29	9.9998853	9997.360	41
53970	11.6286645	429640.77	40	20	10002.708	10.0001176	29	9.9998824	9997.292	40
53308	11.6223777	424334.64	39	21	10002.776	10.0001206	30	9.9998794	9997.224	39
52663	11.6160881	419157.90	38	22	10002.845	10.0001236	30	9.9998764	9997.156	38
52032	11.6100022	414100.88	37	23	10002.915	10.0001266	30	9.9998734	9997.088	37
51418	11.6039182	409174.12	36	24	10002.986	10.0001297	31	9.9998703	9997.019	36
50816	11.5978364	404338.37	35	25	10003.058	10.0001328	31	9.9998672	9996.949	35
50229	11.5917584	399584.60	34	26	10003.130	10.0001359	31	9.9998641	9996.878	34
49656	11.5856861	394958.95	33	27	10003.203	10.0001391	32	9.9998609	9996.806	33
49095	11.5796166	390457.71	32	28	10003.277	10.0001423	32	9.9998577	9996.734	32
48547	11.5735498	386177.38	31	29	10003.352	10.0001456	32	9.9998544	9996.661	31
48011	11.5674851	381884.59	30	30	10003.428	10.0001488	32	9.9998512	9996.587	30
47486	11.5614224	377686.13	29	31	10003.505	10.0001522	33	9.9998478	9996.512	29
46974	11.5553624	373578.92	28	32	10003.582	10.0001555	33	9.9998445	9996.436	28
46472	11.5493050	369560.01	27	33	10003.660	10.0001589	33	9.9998411	9996.359	27
45981	11.5432507	365626.59	26	34	10003.739	10.0001624	34	9.9998376	9996.282	26
45500	11.5371997	361775.96	25	35	10003.820	10.0001658	34	9.9998342	9996.204	25
45028	11.5311514	358005.53	24	36	10003.900	10.0001694	35	9.9998306	9996.124	24
44568	11.5251059	354312.82	23	37	10003.982	10.0001729	35	9.9998271	9996.042	23
44115	11.5190631	350695.46	22	38	10004.065	10.0001765	36	9.9998235	9995.958	22
43672	11.5130236	347151.15	21	39	10004.148	10.0001801	36	9.9998199	9995.874	21
43239	11.5069874	343677.71	20	40	10004.232	10.0001838	37	9.9998162	9995.788	20
42813	11.5009543	340273.03	19	41	10004.317	10.0001875	37	9.9998125	9995.701	19
42395	11.4949242	336935.09	18	42	10004.403	10.0001912	37	9.9998088	9995.613	18
41987	11.4888971	333661.94	17	43	10004.490	10.0001950	38	9.9998050	9995.524	17
41583	11.4828729	330451.73	16	44	10004.578	10.0001988	38	9.9998012	9995.434	16
41181	11.4768516	327302.64	15	45	10004.666	10.0002026	39	9.9997974	9995.343	15
40780	11.4708330	324212.95	14	46	10004.756	10.0002065	39	9.9997935	9995.251	14
40380	11.4648179	321180.99	13	47	10004.846	10.0002104	39	9.9997896	9995.157	13
40024	11.4588052	318205.16	12	48	10004.937	10.0002144	40	9.9997856	9995.066	12
39689	11.4527948	315283.92	11	49	10005.029	10.0002183	39	9.9997817	9994.974	11
39350	11.4467869	312415.77	10	50	10005.121	10.0002222	40	9.9997776	9994.881	10
38977	11.4407819	309595.28	9	51	10005.215	10.0002264	40	9.9997736	9994.788	9
38632	11.4347792	306833.07	8	52	10005.309	10.0002305	41	9.9997695	9994.693	8
38292	11.4287789	304115.80	7	53	10005.405	10.0002347	41	9.9997653	9994.598	7
37958	11.4227808	301446.19	6	54	10005.501	10.0002388	41	9.9997612	9994.502	6
37630	11.4167840	298822.99	5	55	10005.598	10.0002430	42	9.9997570	9994.405	5
37307	11.4107885	296244.99	4	56	10005.696	10.0002473	42	9.9997527	9994.308	4
36990	11.4047943	293711.06	3	57	10005.794	10.0002516	43	9.9997484	9994.209	3
36679	11.4042213	291220.05	2	58	10005.894	10.0002559	43	9.9997441	9994.110	2
36372	11.4046553	288770.89	1	59	10005.994	10.0002602	43	9.9997398	9994.008	1
36072	11.4046912	286322.53	0	60	10006.095	10.0002646	44	9.9997354	9993.908	0
Diff.	L. Tang.	N. Tan.	M	Co-secants			D	L. Sine	N. Sine	M

# 2 Degrees

M. N. Sin.	L. Sine	Diff.	Co-secants			M. N. Tan.	L. Tan.	Diff.
c 348,995	8.5428192	36026	11.4571808	286537,08	60	0 349,208	8.5430838	36071
1 351,902	8.5464218	35730	11.4535782	284169,97	59	1 352,120	8.5466909	35774
2 354,809	8.5499948	35438	11.4500052	281841,68	58	2 355,033	8.5502683	35483
3 357,716	8.5535386	35150	11.4464614	279551,25	57	3 357,945	8.5538166	35196
4 360,623	8.5570536	34868	11.4429464	277297,77	56	4 360,858	8.5573362	34914
5 363,530	8.5605040	34590	11.4394596	275083,35	55	5 363,771	8.5608275	34631
6 366,437	8.5639994	34316	11.4360006	272898,14	54	6 366,683	8.5642912	34363
7 369,344	8.5674310	34047	11.4325690	270750,30	53	7 369,596	8.5677275	34093
8 372,251	8.5708357	33782	11.4291643	268636,03	52	8 372,509	8.5711368	33829
9 375,158	8.5742139	33521	11.4257861	266554,55	51	9 375,422	8.5745197	33569
10 378,065	8.5775660	33263	11.4224340	264505,10	50	10 378,335	8.5778766	33311
11 380,971	8.5808923	33010	11.4191077	262486,94	49	11 381,248	8.5812077	33059
12 383,878	8.5841933	32761	11.4158067	260499,37	48	12 384,161	8.5845130	32809
13 386,785	8.5874694	32515	11.4125306	258541,69	47	13 387,074	8.5877945	32564
14 389,692	8.5907209	32274	11.4092791	256613,24	46	14 389,988	8.5910509	32323
15 392,598	8.5939483	32034	11.4060517	254713,37	45	15 392,901	8.5942832	32085
16 395,505	8.5971517	31800	11.4028483	252841,44	44	16 395,814	8.5974917	31850
17 398,411	8.6003317	31569	11.3996683	250996,85	43	17 398,728	8.6006767	31619
18 401,318	8.6034886	31340	11.3965114	249179,00	42	18 401,641	8.6038386	31391
19 404,224	8.6066226	31115	11.3933774	247387,31	41	19 404,555	8.6069777	31166
20 407,131	8.6097341	30894	11.3902659	245621,23	40	20 407,469	8.6100943	30946
21 410,037	8.6128235	30675	11.3871765	243880,20	39	21 410,383	8.6131889	30727
22 412,944	8.6158910	30459	11.3841090	242163,70	38	22 413,296	8.6162616	30511
23 415,850	8.6189369	30247	11.3810631	240471,21	37	23 416,210	8.6193127	30300
24 418,757	8.6219616	30037	11.3780384	238802,24	36	24 419,124	8.6223427	30091
25 421,663	8.6249653	29831	11.3750347	237156,30	35	25 422,038	8.6253518	29884
26 424,569	8.6279484	29627	11.3720516	235532,91	34	26 424,952	8.6283402	29681
27 427,475	8.6309111	29426	11.3690889	233931,61	33	27 427,866	8.6313083	29480
28 430,382	8.6338537	29227	11.3661463	232351,96	32	28 430,781	8.6342563	29282
29 433,288	8.6367764	29032	11.3632230	230793,51	31	29 433,695	8.6371845	29086
30 436,194	8.6396796	28838	11.3603204	229255,86	30	30 436,609	8.6400931	28894
31 439,100	8.6425634	28648	11.3574366	227738,57	29	31 439,524	8.6429825	28703
32 442,006	8.6454282	28460	11.3545718	226241,26	28	32 442,438	8.6458528	28516
33 444,912	8.6482742	28274	11.3517258	224763,53	27	33 445,353	8.6487044	28331
34 447,818	8.6511016	28091	11.3488984	223304,99	26	34 448,268	8.6515375	28147
35 450,724	8.6539107	27910	11.3460893	221865,28	25	35 451,183	8.6543522	27965
36 453,630	8.6567017	27731	11.3432983	220444,03	24	36 454,097	8.6571490	27785
37 456,536	8.6594748	27555	11.3405252	219040,90	23	37 457,012	8.6599279	27612
38 459,442	8.6622303	27381	11.3377697	217655,53	22	38 459,927	8.6626801	27440
39 462,347	8.6649684	27209	11.3350316	216287,59	21	39 462,842	8.6654331	27267
40 465,253	8.6676893	27039	11.3323107	214936,76	20	40 465,757	8.6681598	27095
41 468,159	8.6703932	26872	11.3296068	213602,72	19	41 468,673	8.6708697	26931
42 471,065	8.6730804	26706	11.3269196	212285,15	18	42 471,588	8.6735628	26765
43 473,970	8.6757510	26542	11.3242490	210983,76	17	43 474,503	8.6762393	26603
44 476,876	8.6784052	26381	11.3215948	209698,24	16	44 477,419	8.6788996	26441
45 479,781	8.6810433	26221	11.3189567	208428,30	15	45 480,334	8.6815437	26282
46 482,687	8.6836654	26064	11.3163340	207173,68	14	46 483,250	8.6841719	26125
47 485,592	8.6862718	25907	11.3137282	205934,09	13	47 486,166	8.6867844	25969
48 488,498	8.6888625	25754	11.3111375	204709,26	12	48 489,082	8.6893813	25816
49 491,403	8.6914379	25601	11.3085621	203498,93	11	49 491,997	8.6919639	25663
50 494,308	8.6939980	25451	11.3060020	202302,84	10	50 494,913	8.6945292	25511
51 497,214	8.6965431	25303	11.3034569	201120,75	9	51 497,829	8.6970806	25366
52 500,119	8.6990734	25155	11.3009266	199952,41	8	52 500,746	8.6996170	25218
53 503,024	8.7015889	25010	11.2984111	198797,58	7	53 503,662	8.7021392	25075
54 505,929	8.7040899	24867	11.2959101	197656,04	6	54 506,578	8.7046463	24930
55 508,835	8.7065766	24724	11.2934234	196527,54	5	55 509,495	8.7071395	24790
56 511,740	8.7090490	24585	11.2909510	195411,87	4	56 512,411	8.7096185	24645
57 514,645	8.7115075	24445	11.2884925	194308,82	3	57 515,328	8.7120834	24511
58 517,550	8.7139520	24305	11.2860480	193218,16	2	58 518,244	8.7145345	24374
59 520,455	8.7163825	24173	11.2836171	192139,70	1	59 521,161	8.7169719	24235
60 523,360	8.7188002		11.2811998	191073,23	0	60 524,078	8.7193958	
Co-fines			L. Sec.	N. Sec.	M	Co-rangents		

# 87 Degrees

# 2 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
	11.4569162	2.86362,53	60		0	10006,095	10.0002646	9.9997354	9993,908	60
36071	11.4533091	2.83993,97	59	1	10006,198	10.0002691	45	9.9997309	9993,806	59
35774	11.4497317	2.81664,22	58	2	10006,300	10.0002735	44	9.9997265	9993,704	58
35483	11.4461834	2.79372,33	57	3	10006,404	10.0002780	43	9.9997220	9993,602	57
35196	11.4426638	2.77117,40	56	4	10006,509	10.0002826	42	9.9997174	9993,499	56
34914	11.4391724	2.74898,53	55	5	10006,614	10.0002872	41	9.9997128	9993,396	55
34636	11.4357088	2.72714,80	54	6	10006,721	10.0002918	40	9.9997082	9993,284	54
34363	11.4322725	2.70565,57	53	7	10006,828	10.0002964	39	9.9997036	9993,177	53
34093	11.4288632	2.68449,84	52	8	10006,936	10.0003011	38	9.9996989	9993,069	52
33820	11.4254803	2.66366,90	51	9	10007,045	10.0003058	37	9.9996942	9992,960	51
33569	11.4221234	2.64316,00	50	10	10007,154	10.0003106	36	9.9996894	9992,850	50
33311	11.4187923	2.62296,38	49	11	10007,265	10.0003154	35	9.9996846	9992,741	49
33059	11.4154864	2.60307,36	48	12	10007,376	10.0003202	34	9.9996798	9992,629	48
32809	11.4122055	2.58348,33	47	13	10007,489	10.0003251	33	9.9996749	9992,517	47
32564	11.4089491	2.56418,32	46	14	10007,602	10.0003300	32	9.9996700	9992,404	46
32323	11.4057168	2.54517,00	45	15	10007,716	10.0003350	31	9.9996650	9992,290	45
32085	11.4025083	2.52643,61	44	16	10007,830	10.0003399	30	9.9996601	9992,176	44
31850	11.3993233	2.50797,57	43	17	10007,946	10.0003450	29	9.9996550	9992,060	43
31619	11.3961614	2.48978,26	42	18	10008,063	10.0003500	28	9.9996500	9991,944	42
31391	11.3930223	2.47185,12	41	19	10008,180	10.0003551	27	9.9996449	9991,827	41
31166	11.3899057	2.45451,78	40	20	10008,298	10.0003602	26	9.9996398	9991,709	40
30946	11.3868111	2.43765,09	39	21	10008,417	10.0003654	25	9.9996346	9991,590	39
30727	11.3837384	2.42105,14	38	22	10008,537	10.0003706	24	9.9996294	9991,470	38
30511	11.3806873	2.40462,30	37	23	10008,658	10.0003758	23	9.9996242	9991,350	37
30300	11.3776573	2.38852,77	36	24	10008,779	10.0003811	22	9.9996189	9991,228	36
30091	11.3746482	2.37269,45	35	25	10008,902	10.0003864	21	9.9996136	9991,106	35
29884	11.3716598	2.35720,52	34	26	10009,025	10.0003918	20	9.9996082	9990,983	34
29681	11.3686917	2.34217,77	33	27	10009,149	10.0003972	19	9.9996028	9990,859	33
29480	11.3657437	2.32736,66	32	28	10009,274	10.0004026	18	9.9995974	9990,734	32
29282	11.3628155	2.31285,77	31	29	10009,400	10.0004081	17	9.9995919	9990,609	31
29086	11.3599069	2.29907,66	30	30	10009,527	10.0004135	16	9.9995865	9990,482	30
28894	11.3570175	2.27518,29	29	31	10009,654	10.0004191	15	9.9995809	9990,355	29
28703	11.3541472	2.26020,15	28	32	10009,783	10.0004247	14	9.9995753	9990,227	28
28516	11.3512956	2.24540,96	27	33	10009,912	10.0004303	13	9.9995697	9990,098	27
28331	11.3484625	2.23080,97	26	34	10010,042	10.0004359	12	9.9995641	9989,968	26
28147	11.3456478	2.21639,80	25	35	10010,173	10.0004416	11	9.9995584	9989,837	25
27968	11.3428510	2.20217,10	24	36	10010,305	10.0004473	10	9.9995527	9989,706	24
27789	11.3400721	2.18812,51	23	37	10010,438	10.0004531	9	9.9995469	9989,573	23
27612	11.3373109	2.17425,69	22	38	10010,571	10.0004589	8	9.9995411	9989,440	22
27440	11.3345609	2.16056,30	21	39	10010,705	10.0004647	7	9.9995353	9989,306	21
27267	11.3318202	2.14704,01	20	40	10010,841	10.0004705	6	9.9995295	9989,171	20
27099	11.3291303	2.13368,51	19	41	10010,977	10.0004764	5	9.9995236	9989,035	19
26931	11.3264372	2.12049,49	18	42	10011,114	10.0004824	4	9.9995176	9988,899	18
26765	11.3237607	2.10746,64	17	43	10011,251	10.0004884	3	9.9995116	9988,761	17
26603	11.3211004	2.09459,66	16	44	10011,390	10.0004944	2	9.9995056	9988,623	16
26441	11.3184563	2.08188,28	15	45	10011,529	10.0005004	1	9.9994996	9988,484	15
26282	11.3158281	2.06932,20	14	46	10011,670	10.0005065	0	9.9994935	9988,344	14
26125	11.3132156	2.05691,15	13	47	10011,811	10.0005126	61	9.9994874	9988,203	13
25969	11.3106187	2.04463,86	12	48	10011,953	10.0005188	62	9.9994812	9988,061	12
25816	11.3080371	2.03253,08	11	49	10012,096	10.0005250	63	9.9994750	9987,919	11
25663	11.3054708	2.02056,53	10	50	10012,239	10.0005312	64	9.9994688	9987,775	10
25514	11.3029194	2.00871,99	9	51	10012,384	10.0005375	65	9.9994625	9987,631	9
25366	11.3003828	1.99702,19	8	52	10012,529	10.0005438	66	9.9994562	9987,486	8
25218	11.2978610	1.98545,91	7	53	10012,676	10.0005502	67	9.9994498	9987,340	7
25075	11.2953535	1.97402,91	6	54	10012,823	10.0005565	68	9.9994435	9987,194	6
24930	11.2928605	1.96272,96	5	55	10012,971	10.0005630	69	9.9994370	9987,046	5
24790	11.2903815	1.95155,84	4	56	10013,120	10.0005694	70	9.9994306	9986,898	4
24649	11.2879166	1.94051,33	3	57	10013,269	10.0005759	71	9.9994241	9986,748	3
24511	11.2854653	1.92959,22	2	58	10013,420	10.0005824	72	9.9994176	9986,598	2
24374	11.2830281	1.91879,30	1	59	10013,571	10.0005890	73	9.9994110	9986,447	1
24239	11.2806042	1.90811,37	0	60	10013,723	10.0005956	74	9.9994044	9986,295	0
Diff.	L. Tang.	N. Tan.	M.	Co-secants			D	L. Sine	N. Sine	M.

# 3 Degrees

M	N. Sin.	L. Sine	Diff.	Co-secants			M	N. Tan.	L. Tan.	Diff.
1	523,360	8.7188002	24038	11.2811998	191073,23	60	c	524,078	8.7193958	24103
1	526,264	8.7212040	23906	11.2787960	190018,54	59	1	526,995	8.7218063	23972
2	529,169	8.7235946	23775	11.2764054	188975,45	58	2	529,912	8.7242035	23842
3	532,074	8.7259724	23645	11.2740279	187943,77	57	3	532,829	8.7265877	23712
4	534,979	8.7283366	23516	11.2716634	186923,30	56	4	535,746	8.7289589	23582
5	537,883	8.7306882	23390	11.2693118	185913,87	55	5	538,663	8.7313174	23457
6	540,788	8.7330272	23263	11.2669728	184915,30	54	6	541,581	8.7336631	23333
7	543,693	8.7353533	23140	11.2646465	183927,42	53	7	544,498	8.7359964	23208
8	546,597	8.7376675	23016	11.2623325	182950,05	52	8	547,416	8.7383172	23086
9	549,502	8.7399691	22895	11.2600309	181983,03	51	9	550,333	8.7406258	22964
10	552,406	8.7422586	22774	11.2577414	181026,19	50	10	553,251	8.7429222	22845
11	555,311	8.7445366	22655	11.2554640	180079,37	49	11	556,169	8.7452067	22725
12	558,215	8.7468015	22538	11.2531985	179142,43	48	12	559,087	8.7474792	22608
13	561,119	8.7490553	22420	11.2509447	178215,20	47	13	562,005	8.7497400	22492
14	564,024	8.7512973	22305	11.2487027	177297,53	46	14	564,923	8.7519892	22377
15	566,928	8.7535278	22191	11.2464722	176389,28	45	15	567,841	8.7542269	22262
16	569,832	8.7557466	22077	11.2442531	175490,30	44	16	570,759	8.7564531	22150
17	572,736	8.7579546	21966	11.2420454	174600,46	43	17	573,678	8.7586681	22038
18	575,640	8.7601512	21854	11.2398488	173719,60	42	18	576,596	8.7608719	21928
19	578,544	8.7623366	21745	11.2376634	172847,61	41	19	579,515	8.7630647	21818
20	581,448	8.7645117	21636	11.2354889	171984,34	40	20	582,434	8.7652465	21710
21	584,352	8.7666747	21528	11.2333253	171129,66	39	21	585,352	8.7674175	21602
22	587,256	8.7688275	21422	11.2311725	170283,46	38	22	588,271	8.7695777	21497
23	590,160	8.7709697	21317	11.2290303	169445,59	37	23	591,190	8.7717274	21391
24	593,064	8.7731014	21212	11.2268986	168615,94	36	24	594,109	8.7738665	21287
25	595,967	8.7752226	21108	11.2247774	167794,39	35	25	597,029	8.7759952	21184
26	598,871	8.7773334	21006	11.2226666	166980,82	34	26	599,948	8.7781136	21082
27	601,775	8.7794344	20904	11.2205660	166175,12	33	27	602,867	8.7802218	20981
28	604,678	8.7815244	20804	11.2184756	165377,17	32	28	605,787	8.7823199	20880
29	607,582	8.7836048	20705	11.2163952	164586,86	31	29	608,706	8.7844079	20782
30	610,485	8.7856753	20606	11.2143247	163804,08	30	30	611,626	8.7864861	20683
31	613,389	8.7877359	20508	11.2122641	163028,73	29	31	614,546	8.7885544	20586
32	616,292	8.7897867	20411	11.2102133	162260,69	28	32	617,466	8.7906130	20490
33	619,196	8.7918278	20316	11.2081722	161499,87	27	33	620,386	8.7926620	20394
34	622,099	8.7938594	20220	11.2061406	160746,17	26	34	623,306	8.7947014	20299
35	625,002	8.7958814	20127	11.2041186	159999,48	25	35	626,226	8.7967313	20206
36	627,905	8.7978941	20033	11.2021059	159259,71	24	36	629,147	8.7987519	20113
37	630,808	8.7998974	19941	11.2001026	158526,76	23	37	632,067	8.8007632	20021
38	633,711	8.8018915	19849	11.1981085	157800,54	22	38	634,988	8.8027653	19930
39	636,614	8.8038764	19759	11.1961236	157080,96	21	39	637,908	8.8047583	19839
40	639,517	8.8058523	19669	11.1941477	156367,93	20	40	640,829	8.8067422	19750
41	642,420	8.8078192	19580	11.1921808	155661,35	19	41	643,750	8.8087172	19662
42	645,323	8.8097772	19492	11.1902228	154961,14	18	42	646,671	8.8106834	19573
43	648,226	8.8117264	19404	11.1882736	154267,21	17	43	649,592	8.8126407	19487
44	651,129	8.8136668	19317	11.1863332	153579,49	16	44	652,513	8.8145894	19400
45	654,031	8.8155985	19232	11.1844015	152897,88	15	45	655,435	8.8165294	19314
46	656,934	8.8175217	19146	11.1824783	152222,31	14	46	658,356	8.8184608	19230
47	659,836	8.8194363	19062	11.1805637	151552,70	13	47	661,278	8.8203838	19146
48	662,739	8.8213425	18979	11.1786575	150888,96	12	48	664,199	8.8222984	19064
49	665,641	8.8232404	18895	11.1767596	150231,03	11	49	667,121	8.8242046	18980
50	668,544	8.8251299	18813	11.1748701	149578,82	10	50	670,043	8.8261026	18898
51	671,446	8.8270112	18732	11.1729888	148932,26	9	51	672,965	8.8279924	18817
52	674,348	8.8288844	18651	11.1711156	148291,28	8	52	675,887	8.8298741	18737
53	677,251	8.8307495	18571	11.1692505	147655,80	7	53	678,809	8.8317478	18656
54	680,153	8.8326066	18491	11.1673934	147025,76	6	54	681,732	8.8336134	18575
55	683,055	8.8344557	18412	11.1655443	146401,09	5	55	684,654	8.8354712	18495
56	685,957	8.8362969	18335	11.1637031	145781,72	4	56	687,577	8.8373211	18412
57	688,858	8.8381304	18257	11.1618696	145167,57	3	57	690,499	8.8391633	18334
58	691,761	8.8399561	18180	11.1600439	144558,59	2	58	693,422	8.8409977	18262
59	694,663	8.8417741	18104	11.1582259	143954,71	1	59	696,345	8.8428245	18192
60	697,565	8.8435845		11.1564155	143355,87	c	60	699,268	8.8446437	
Co-tines			Diff.	L. Sec.	N. Sec.	M	Co-tangents			Diff.

# 3 Degrees

3 Digits							
Diff.	Co-tangents	M	N. Sec.	L. Sec.	D	Co-fines	
	11.2806042 190811,37 60	c	10013,723	10.0005956	56	9.9994042 9986,295 60	
24105	11.2781937 189755,23 59	1	10013,877	10.0006022	57	9.9993978 9986,143 59	
23972	11.2757965 188710,68 58	2	10014,030	10.0006088	58	9.9993911 9985,989 58	
23842	11.2734123 187677,54 57	3	10014,183	10.0006156	59	9.9993844 9985,835 57	
23712	11.2710411 186655,62 56	4	10014,341	10.0006224	60	9.9993776 9985,680 56	
23585	11.2686826 185644,73 55	5	10014,497	10.0006292	61	9.9993708 9985,524 55	
23457	11.2663360 184644,71 54	6	10014,655	10.0006360	62	9.9993640 9985,367 54	
23333	11.2640036 183655,37 53	7	10014,813	10.0006428	63	9.9993572 9985,209 53	
23208	11.2616828 182676,54 52	8	10014,972	10.0006497	64	9.9993503 9985,050 52	
23086	11.2593742 181708,07 51	9	10015,132	10.0006567	65	9.9993433 9984,891 51	
22964	11.2570778 180749,77 50	10	10015,293	10.0006636	66	9.9993364 9984,731 50	
22845	11.2547933 179801,50 49	11	10015,454	10.0006707	67	9.9993293 9984,570 49	
22725	11.2525208 178863,10 48	12	10015,617	10.0006777	68	9.9993223 9984,408 48	
22608	11.2502600 177934,42 47	13	10015,780	10.0006848	69	9.9993152 9984,245 47	
22492	11.2480108 177015,29 46	14	10015,944	10.0006919	70	9.9993081 9984,081 46	
22377	11.2457731 176105,59 45	15	10016,109	10.0006991	71	9.9993009 9983,917 45	
22262	11.2435469 175205,16 44	16	10016,275	10.0007062	72	9.9992938 9983,751 44	
22150	11.2413319 174313,85 43	17	10016,442	10.0007135	73	9.9992865 9983,583 43	
22038	11.2391281 173431,55 42	18	10016,609	10.0007207	74	9.9992793 9983,418 42	
21928	11.2369353 172558,09 41	19	10016,778	10.0007280	75	9.9992720 9983,250 41	
21818	11.2347535 171693,37 40	20	10016,947	10.0007354	76	9.9992646 9983,082 40	
21710	11.2325825 170837,24 39	21	10017,117	10.0007428	77	9.9992572 9982,912 39	
21602	11.2304223 169989,57 38	22	10017,288	10.0007502	78	9.9992498 9982,742 38	
21497	11.2282726 169150,25 37	23	10017,460	10.0007576	79	9.9992424 9982,570 37	
21391	11.2261335 168319,15 36	24	10017,633	10.0007651	80	9.9992349 9982,398 36	
21287	11.2240048 167496,14 35	25	10017,806	10.0007726	81	9.9992274 9982,225 35	
21184	11.2218864 166681,12 34	26	10017,981	10.0007802	82	9.9992198 9982,052 34	
21082	11.2197782 165873,96 33	27	10018,156	10.0007878	83	9.9992122 9981,877 33	
20981	11.2176801 165074,56 32	28	10018,332	10.0007954	84	9.9992046 9981,701 32	
20880	11.2155921 164282,79 31	29	10018,509	10.0008031	85	9.9991969 9981,525 31	
20782	11.2135139 163498,55 30	30	10018,687	10.0008108	86	9.9991892 9981,348 30	
20683	11.2114456 162721,74 29	31	10018,866	10.0008185	87	9.9991815 9981,170 29	
20586	11.2093870 161952,25 28	32	10019,045	10.0008263	88	9.9991737 9980,991 28	
20490	11.2073380 161189,98 27	33	10019,223	10.0008341	89	9.9991659 9980,811 27	
20394	11.2052986 160434,82 26	34	10019,407	10.0008420	90	9.9991580 9980,631 26	
20299	11.2032687 159686,67 25	35	10019,589	10.0008499	91	9.9991501 9980,450 25	
20206	11.2012481 158945,45 24	36	10019,772	10.0008578	92	9.9991422 9980,267 24	
20113	11.1992368 158211,05 23	37	10019,956	10.0008658	93	9.9991342 9980,083 23	
20021	11.1972347 157483,37 22	38	10020,140	10.0008738	94	9.9991261 9979,900 22	
19930	11.1952417 156762,35 21	39	10020,326	10.0008818	95	9.9991182 9979,716 21	
19839	11.1932578 156047,84 20	40	10020,512	10.0008899	96	9.9991101 9979,530 20	
19750	11.1912828 155339,81 19	41	10020,699	10.0008980	97	9.9991020 9979,345 19	
19662	11.1893166 154638,14 18	42	10020,887	10.0009062	98	9.9990938 9979,156 18	
19577	11.1873593 153942,76 17	43	10021,076	10.0009144	99	9.9990856 9978,968 17	
19487	11.1854106 153253,58 16	44	10021,266	10.0009226	100	9.9990774 9978,779 16	
19400	11.1834706 152570,52 15	45	10021,457	10.0009309	85	9.9990691 9978,585 15	
19314	11.1815392 151893,49 14	46	10021,648	10.0009392	86	9.9990608 9978,399 14	
19230	11.1796162 151222,42 13	47	10021,841	10.0009475	87	9.9990525 9978,207 13	
19146	11.1777016 150557,23 12	48	10022,034	10.0009559	88	9.9990441 9978,015 12	
19062	11.1757954 149897,84 11	49	10022,228	10.0009643	89	9.9990357 9977,821 11	
18980	11.1738974 149244,17 10	50	10022,423	10.0009727	90	9.9990273 9977,627 10	
18898	11.1720076 148596,16 9	51	10022,619	10.0009812	91	9.9990188 9977,433 9	
18817	11.1701259 147953,72 8	52	10022,815	10.0009897	92	9.9990103 9977,237 8	
18737	11.1682522 147316,79 7	53	10023,013	10.0009983	93	9.9990017 9977,040 7	
18656	11.1663866 146685,29 6	54	10023,211	10.0010069	94	9.9989931 9976,842 6	
18578	11.1645288 146059,16 5	55	10023,410	10.0010155	95	9.9989845 9976,645 5	
18492	11.1626789 145433,33 4	56	10023,610	10.0010242	96	9.9989758 9976,448 4	
18422	11.1608367 144822,73 3	57	10023,811	10.0010329	97	9.9989671 9976,249 3	
18344	11.1590023 144212,30 2	58	10024,013	10.0010416	98	9.9989584 9976,049 2	
18268	11.1571755 143606,96 1	59	10024,216	10.0010504	99	9.9989496 9975,848 1	
18192	11.1553563 143006,66 0	60	10024,419	10.0010592	100	9.9989408 9975,641 0	
Diff.	L. Tang.	N. Tan.	M	Co-secants	D	L. Sine	N. Sine

# 4 Degrees

M.N. Sin.	L. Sine	Diff.	Co-secants		M.N. Tan.	L. Tan.	Diff.
0 697,565	8.8435845		11.1564155	143355,8	0 699,268	8.8446437	18117
1 004,67	8.8453874	18025	11.1546126	142762,00	1 712,191	8.8464554	18043
2 703,368	8.8471827	17953	11.1528173	142173,04	2 705,115	8.8482597	17965
3 706,270	8.8489707	17880	11.1510293	141588,94	3 710,961	8.8500566	17895
4 709,171	8.8507512	17805	11.1492488	141009,63	4 715,809	8.8518461	17822
5 712,073	8.8525245	17733	11.1474755	140435,04	5 720,657	8.8536283	17751
6 714,974	8.8542905	17660	11.1457095	139865,14	6 725,505	8.8554034	17675
7 717,876	8.8560493	17588	11.1439507	139299,85	7 730,353	8.8571713	17608
8 720,777	8.8578010	17517	11.1421990	138739,13	8 735,201	8.8589321	17538
9 723,678	8.8595457	17447	11.1404543	138182,91	9 740,049	8.8606859	17468
10 726,580	8.8612833	17376	11.1387167	137631,15	10 744,897	8.8624327	17398
11 729,481	8.8630139	17306	11.1369861	137083,75	11 749,745	8.8641725	17330
12 732,382	8.8647370	17237	11.1352624	136540,77	12 754,593	8.8659055	17262
13 735,283	8.8664545	17165	11.1335455	136002,05	13 759,441	8.8676317	17194
14 738,184	8.8681646	17101	11.1318354	135467,58	14 764,289	8.8693511	17127
15 741,085	8.8698680	17034	11.1301320	134937,31	15 769,137	8.8710638	17061
16 743,986	8.8715646	16966	11.1284354	134411,18	16 773,985	8.8727699	16995
17 746,887	8.8732546	16900	11.1267454	133889,14	17 778,833	8.8744694	16929
18 749,787	8.8749381	16833	11.1250619	133371,16	18 783,681	8.8761623	16864
19 752,688	8.8766150	16765	11.1233850	132857,19	19 788,529	8.8778487	16799
20 755,589	8.8782854	16704	11.1217146	132347,17	20 793,377	8.8795286	16736
21 758,489	8.8799493	16635	11.1200507	131841,06	21 798,225	8.8812022	16672
22 761,390	8.8816069	16572	11.1183931	131338,82	22 803,073	8.8828694	16609
23 764,290	8.8832581	16512	11.1167419	130840,47	23 807,921	8.8845303	16547
24 767,190	8.8849031	16450	11.1150969	130345,76	24 812,769	8.8861850	16484
25 770,091	8.8865418	16387	11.1134582	129854,86	25 817,617	8.8878334	16423
26 772,991	8.8881743	16323	11.1118257	129367,65	26 822,465	8.8894757	16362
27 775,891	8.8898007	16264	11.1101993	128884,19	27 827,313	8.8911119	16301
28 778,791	8.8914209	16202	11.1085791	128404,16	28 832,161	8.8927420	16240
29 781,691	8.8930351	16142	11.1069649	127927,79	29 837,009	8.8943660	16182
30 784,591	8.8946433	16082	11.1053567	127454,95	30 841,857	8.8959842	16121
31 787,491	8.8962455	16022	11.1037545	126985,60	31 846,705	8.8975963	16063
32 790,391	8.8978418	15963	11.1021582	126519,71	32 851,553	8.8992026	16004
33 793,290	8.8994322	15904	11.1005678	126057,24	33 856,401	8.9008030	15947
34 796,190	8.9010168	15846	11.0989832	125598,15	34 861,249	8.9023977	15889
35 799,090	8.9025955	15787	11.0974045	125142,40	35 866,097	8.9039866	15831
36 801,989	8.9041685	15730	11.0958315	124689,95	36 870,945	8.9055697	15775
37 804,889	8.9057358	15673	11.0942642	124240,78	37 875,793	8.9071472	15718
38 807,788	8.9072975	15617	11.0927025	123794,84	38 880,641	8.9087190	15663
39 810,687	8.9088535	15560	11.0911465	123352,10	39 885,489	8.9102853	15607
40 813,587	8.9104039	15504	11.0895961	122912,52	40 890,337	8.9118460	15552
41 816,486	8.9119487	15448	11.0880513	122476,08	41 895,185	8.9134012	15497
42 819,385	8.9134881	15394	11.0865119	122042,74	42 900,033	8.9149509	15443
43 822,284	8.9150219	15338	11.0849781	121612,46	43 904,881	8.9164952	15388
44 825,183	8.9165504	15283	11.0834496	121185,22	44 909,729	8.9180340	15335
45 828,082	8.9180734	15230	11.0819266	120760,98	45 914,577	8.9195675	15282
46 830,981	8.9195911	15177	11.0804085	120339,70	46 919,425	8.9210957	15229
47 833,880	8.9211034	15123	11.0788966	119921,37	47 924,273	8.9226186	15177
48 836,778	8.9226105	15071	11.0773895	119505,95	48 929,121	8.9241363	15124
49 839,677	8.9241123	15018	11.0758877	119093,40	49 933,969	8.9256487	15073
50 842,576	8.9256089	14966	11.0743911	118683,70	50 938,817	8.9271566	15021
51 845,474	8.9271003	14914	11.0728997	118276,83	51 943,665	8.9286581	14970
52 848,373	8.9285866	14863	11.0714134	117872,74	52 948,513	8.9301552	14919
53 851,271	8.9300678	14812	11.0699322	117471,41	53 953,361	8.9316471	14868
54 854,169	8.9315439	14761	11.0684561	117072,82	54 958,209	8.9331340	14817
55 857,067	8.9330150	14711	11.0669850	116676,93	55 963,057	8.9346160	14766
56 859,966	8.9344811	14661	11.0655189	116283,72	56 967,905	8.9360925	14715
57 862,864	8.9359422	14611	11.0640578	115893,16	57 972,753	8.9375686	14664
58 865,762	8.9373983	14561	11.0626017	115505,23	58 977,601	8.9390392	14613
59 868,660	8.9388496	14513	11.0611504	115119,90	59 982,449	8.9405044	14562
60 871,557	8.9402960	14464	11.0597040	114737,13	60 987,297	8.9419641	14511
	Co-fines	Diff.	L. Sec.	N. Sec.		Co-tangents	Diff.

# 4 Degrees

Diff.	Co tangents		M	N. Sec.	L. Sec.	D	Co-fines	
18117	11.1553563	143006,66	60	0	10024,419	10.0010592	9.9989408	9975,041
18043	11.1553446	142411,34	59	1	10024,623	10.0010681	9.9989319	9975,437
17969	11.1517403	141820,92	58	2	10024,829	10.0010770	9.9989230	9975,833
17895	11.1499434	141235,36	57	3	10025,035	10.0010859	9.9989141	9975,228
17822	11.1481539	140654,59	56	4	10025,241	10.0010948	9.9989052	9974,822
17751	11.1463717	140078,56	55	5	10025,449	10.0011037	9.9988962	9974,415
17679	11.1445966	139507,19	54	6	10025,658	10.0011129	9.9988871	9974,008
17608	11.1428287	138940,45	53	7	10025,867	10.0011220	9.9988780	9973,601
17538	11.1410679	138378,27	52	8	10026,078	10.0011311	9.9988689	9973,194
17468	11.1393141	137820,60	51	9	10026,289	10.0011402	9.9988598	9972,787
17398	11.1375673	137267,38	50	10	10026,501	10.0011494	9.9988506	9972,380
17330	11.1358275	136718,56	49	11	10026,714	10.0011586	9.9988414	9971,973
17262	11.1340945	136174,09	48	12	10026,928	10.0011679	9.9988321	9971,565
17194	11.1323663	135633,01	47	13	10027,142	10.0011772	9.9988228	9971,158
17127	11.1306489	135097,99	46	14	10027,358	10.0011865	9.9988135	9970,751
17061	11.1289362	134566,25	45	15	10027,574	10.0011959	9.9988041	9970,344
16995	11.1272301	134038,67	44	16	10027,791	10.0012053	9.9987947	9969,937
16929	11.1255306	133515,18	43	17	10028,009	10.0012147	9.9987853	9969,530
16864	11.1238377	132995,74	42	18	10028,228	10.0012242	9.9987758	9969,123
16799	11.1221513	132480,31	41	19	10028,448	10.0012337	9.9987663	9968,715
16736	11.1204714	131968,83	40	20	10028,669	10.0012433	9.9987567	9968,308
16672	11.1187978	131461,27	39	21	10028,890	10.0012529	9.9987471	9967,901
16609	11.1171306	130957,57	38	22	10029,112	10.0012625	9.9987375	9967,494
16547	11.1154697	130457,69	37	23	10029,336	10.0012721	9.9987278	9967,087
16484	11.1138150	129961,60	36	24	10029,560	10.0012818	9.9987181	9966,680
16423	11.1121000	129469,24	35	25	10029,785	10.0012916	9.9987084	9966,273
16362	11.1105243	128980,58	34	26	10030,010	10.0013014	9.9986986	9965,866
16301	11.1088881	128495,57	33	27	10030,237	10.0013112	9.9986888	9965,459
16240	11.1072580	128014,17	32	28	10030,464	10.0013210	9.9986790	9965,052
16182	11.1056340	127536,34	31	29	10030,693	10.0013309	9.9986691	9964,645
16121	11.1040158	127062,05	30	30	10030,922	10.0013409	9.9986591	9964,238
16063	11.1024037	126591,25	29	31	10031,152	10.0013508	9.9986492	9963,831
16004	11.1007974	126123,90	28	32	10031,383	10.0013608	9.9986392	9963,424
15947	11.0991970	125659,97	27	33	10031,615	10.0013708	9.9986292	9963,017
15889	11.0976023	125199,42	26	34	10031,847	10.0013809	9.9986191	9962,610
15831	11.0960134	124747,21	25	35	10032,081	10.0013910	9.9986090	9962,203
15775	11.0944303	124288,31	24	36	10032,315	10.0014012	9.9985988	9961,796
15718	11.0928528	123837,68	23	37	10032,551	10.0014114	9.9985886	9961,389
15663	11.0912810	123390,28	22	38	10032,787	10.0014216	9.9985784	9960,982
15607	11.0897147	122946,09	21	39	10033,024	10.0014318	9.9985682	9960,575
15552	11.0881540	122505,05	20	40	10033,261	10.0014421	9.9985579	9960,168
15497	11.0865988	122067,16	19	41	10033,500	10.0014525	9.9985476	9959,761
15443	11.0850491	121632,36	18	42	10033,740	10.0014628	9.9985372	9959,354
15388	11.0835048	121200,62	17	43	10033,980	10.0014732	9.9985268	9958,947
15335	11.0819660	120771,92	16	44	10034,221	10.0014837	9.9985163	9958,540
15282	11.0804325	120346,22	15	45	10034,463	10.0014942	9.9985058	9958,133
15229	11.0789043	119923,49	14	46	10034,706	10.0015047	9.9984953	9957,726
15177	11.0773814	119503,70	13	47	10034,950	10.0015152	9.9984848	9957,319
15124	11.0758637	119086,82	12	48	10035,195	10.0015258	9.9984742	9956,912
15073	11.0743513	118672,82	11	49	10035,440	10.0015364	9.9984636	9956,505
15021	11.0728440	118261,67	10	50	10035,687	10.0015471	9.9984529	9956,098
14971	11.0713419	117853,33	9	51	10035,934	10.0015578	9.9984422	9955,691
14919	11.0698448	117447,79	8	52	10036,182	10.0015685	9.9984315	9955,284
14869	11.0683529	117045,00	7	53	10036,431	10.0015793	9.9984209	9954,877
14820	11.0668660	116644,95	6	54	10036,681	10.0015901	9.9984102	9954,470
14769	11.0653840	116247,61	5	55	10036,932	10.0016010	9.9984000	9954,063
14721	11.0639071	115852,94	4	56	10037,183	10.0016119	9.9983881	9953,656
14671	11.0624350	115460,93	3	57	10037,436	10.0016228	9.9983772	9953,249
14623	11.0609679	115071,54	2	58	10037,689	10.0016337	9.9983663	9952,842
14574	11.0595056	114684,74	1	59	10037,943	10.0016447	9.9983553	9952,435
14527	11.0580482	114300,52	0	60	10038,198	10.0016557	9.9983442	9952,028
Diff.	L. Tang.	N. Tan.	M		Co-secants		L. Sine	N. Sine M

# 5 Degrees

M.N. Sine	L. Sine	Diff.	Co-secants			M.N. Tan.	L. Tan.	Diff.	
c 871,557	8.9402966	14416	11.0597040	114737,13	60	o 874,887	8.9419518	14526	
1 874,455	8.9417376	14367	11.0582624	114356,92	59	1 877,818	8.9434044	14479	
2 877,353	8.9431743	14310	11.0568257	113979,22	58	2 880,749	8.9448523	14431	
3 880,251	8.9446063	14272	11.0553937	113604,02	57	3 883,681	8.9462954	14384	
4 883,148	8.9460335	14226	11.0539665	113231,29	56	4 886,612	8.9477338	14338	
5 886,046	8.9474561	14178	11.0525439	112861,01	55	5 889,544	8.9491676	14291	
6 888,943	8.9488735	14132	11.0511261	112493,16	54	6 892,476	8.9505967	14244	
7 891,840	8.9502871	14086	11.0497129	112127,70	53	7 895,408	8.9520211	14199	
8 894,738	8.9516957	14039	11.0483043	111764,62	52	8 898,341	8.9534410	14154	
9 897,635	8.9530996	13995	11.0469004	111403,89	51	9 901,273	8.9548564	14108	
10 900,532	8.9544991	13949	11.0455009	111045,49	50	10 904,206	8.9562672	14063	
11 903,429	8.9558940	13903	11.0441060	110689,40	49	11 907,138	8.9576735	14019	
12 906,326	8.9572843	13860	11.0427157	110335,60	48	12 910,071	8.9590754	13974	
13 909,223	8.9586703	13814	11.0413297	109984,06	47	13 913,004	8.9604728	13931	
14 912,119	8.9600517	13771	11.0399483	109634,76	46	14 915,938	8.9618659	13886	
15 915,016	8.9614288	13726	11.0385712	109287,68	45	15 918,871	8.9632545	13843	
16 917,913	8.9628014	13683	11.0371986	108942,81	44	16 921,804	8.9646388	13800	
17 920,809	8.9641697	13640	11.0358303	108600,11	43	17 924,738	8.9660188	13756	
18 923,706	8.9655337	13597	11.0344663	108259,57	42	18 927,672	8.9673944	13714	
19 926,602	8.9668934	13553	11.0331066	107921,17	41	19 930,606	8.9687658	13672	
20 929,499	8.9682487	13512	11.0317513	107584,88	40	20 933,540	8.9701330	13629	
21 932,395	8.9695995	13469	11.0304001	107250,70	39	21 936,474	8.9714959	13588	
22 935,291	8.9709468	13427	11.0290532	106918,59	38	22 939,408	8.9728547	13545	
23 938,187	8.9722895	13385	11.0277105	106588,54	37	23 942,344	8.9742092	13505	
24 941,083	8.9736280	13344	11.0263720	106260,54	36	24 945,278	8.9755597	13461	
25 943,979	8.9749624	13302	11.0250376	105934,55	35	25 948,213	8.9769060	13418	
26 946,875	8.9762926	13262	11.0237074	105610,57	34	26 951,148	8.9782483	13382	
27 949,771	8.9776188	13220	11.0223812	105288,57	33	27 954,084	8.9795865	13341	
28 952,666	8.9789408	13181	11.0210592	104968,54	32	28 957,019	8.9809206	13301	
29 955,562	8.9802589	13140	11.0197411	104650,46	31	29 959,955	8.9822507	13262	
30 958,458	8.9815729	13100	11.0184271	104334,37	30	30 962,890	8.9835769	13222	
31 961,353	8.9828829	13060	11.0171171	104020,07	29	31 965,826	8.9848991	13182	
32 964,248	8.9841889	13021	11.0158111	103707,72	28	32 968,763	8.9862173	13144	
33 967,144	8.9854910	12981	11.0145090	103397,26	27	33 971,699	8.9875317	13106	
34 970,039	8.9867891	12943	11.0132109	103088,66	26	34 974,635	8.9888421	13066	
35 972,934	8.9880834	12903	11.0119166	102781,90	25	35 977,572	8.9901487	13027	
36 975,829	8.9893737	12865	11.0106263	102476,97	24	36 980,509	8.9914514	12988	
37 978,724	8.9906602	12827	11.0093398	102173,86	23	37 983,446	8.9927503	12951	
38 981,619	8.9919429	12788	11.0080571	101872,54	22	38 986,383	8.9940454	12913	
39 984,514	8.9932217	12751	11.0067785	101573,00	21	39 989,320	8.9953367	12876	
40 987,408	8.9944968	12713	11.0055032	101275,22	20	40 992,257	8.9966243	12838	
41 990,303	8.9957681	12675	11.0042319	100979,20	19	41 995,195	8.9979081	12800	
42 993,197	8.9970356	12638	11.0029644	100684,91	18	42 998,133	8.9991883	12764	
43 996,092	8.9982994	12601	11.0017006	100392,34	17	43 1001,071	9.0004647	12728	
44 998,986	8.9995595	12565	11.0004405	100101,47	16	44 1004,009	9.0017375	12691	
45 1001,881	9.0008160	12527	10.9991840	99812,29	15	45 1006,947	9.0030066	12655	
46 1004,775	9.0020687	12492	10.9979313	99524,78	14	46 1009,886	9.0042721	12619	
47 1007,669	9.0033179	12456	10.9966821	99238,94	13	47 1012,824	9.0055340	12584	
48 1010,563	9.0045634	12419	10.9954366	98954,74	12	48 1015,763	9.0067924	12547	
49 1013,457	9.0058053	12383	10.9941947	98672,17	11	49 1018,702	9.0080471	12513	
50 1016,351	9.0070436	12348	10.9929564	98391,22	10	50 1021,641	9.0092984	12477	
51 1019,245	9.0082784	12312	10.9917216	98111,88	9	51 1024,580	9.0105461	12442	
52 1022,138	9.0095096	12278	10.9904904	97834,12	8	52 1027,520	9.0117903	12407	
53 1025,032	9.0107374	12242	10.9892626	97557,94	7	53 1030,460	9.0130310	12372	
54 1027,925	9.0119616	12207	10.9880384	97283,32	6	54 1033,399	9.0142682	12338	
55 1030,819	9.0131823	12173	10.9868177	97010,26	5	55 1036,340	9.0155021	12304	
56 1033,712	9.0143996	12139	10.9856004	96738,73	4	56 1039,280	9.0167325	12269	
57 1036,605	9.0156135	12104	10.9843865	96468,72	3	57 1042,220	9.0179594	12235	
58 1039,499	9.0168239	12070	10.9831761	96200,22	2	58 1045,161	9.0191831	12202	
59 1042,392	9.0180309	12037	10.9819691	95933,23	1	59 1048,101	9.0204033	12168	
60 1045,285	9.0192346		10.9807654	95667,72	0	60 1051,042	9.0216202		
Co-fines		Diff.	L. Sec.		N. Sec.	M		Co-tangents	Diff.

# 84 Degrees

# 5 Degrees

Diff.	Co-tangents			M. N. Sec.	L. Sec.	D.	Co-fines		
14526	11.0580482	114300,52	60	0	10038,198	10.0016558	9.9983442	9961,947	60
14479	11.0565956	113918,85	59	1	10038,454	10.0016668	9.9983332	9961,693	59
14431	11.0551477	113537,00	58	2	10038,711	10.0016780	9.9983220	9961,438	58
14384	11.0537046	113155,04	57	3	10038,969	10.0016891	9.9983109	9961,183	57
14338	11.0522662	112773,85	56	4	10039,227	10.0017003	9.9982997	9960,926	56
14291	11.0508324	112392,12	55	5	10039,485	10.0017115	9.9982885	9960,669	55
14244	11.0494033	112010,80	54	6	10039,747	10.0017228	9.9982772	9960,411	54
14199	11.0479789	111629,39	53	7	10040,008	10.0017340	9.9982660	9960,152	53
14154	11.0465590	111248,35	52	8	10040,270	10.0017454	9.9982546	9959,892	52
14108	11.0451436	110867,16	51	9	10040,533	10.0017567	9.9982433	9959,631	51
14063	11.0437328	110486,31	50	10	10040,796	10.0017682	9.9982318	9959,370	50
14019	11.0423265	110105,76	49	11	10041,061	10.0017796	9.9982204	9959,107	49
13974	11.0409246	109725,00	48	12	10041,326	10.0017911	9.9982089	9958,844	48
13931	11.0395272	109344,50	47	13	10041,592	10.0018026	9.9981974	9958,580	47
13886	11.0381341	108964,37	46	14	10041,859	10.0018141	9.9981859	9958,315	46
13843	11.0367455	108584,21	45	15	10042,127	10.0018257	9.9981743	9958,049	45
13800	11.0353612	108204,04	44	16	10042,396	10.0018374	9.9981626	9957,783	44
13756	11.0339812	107823,87	43	17	10042,666	10.0018490	9.9981510	9957,515	43
13714	11.0326056	107443,70	42	18	10042,937	10.0018607	9.9981393	9957,247	42
13672	11.0312342	107063,53	41	19	10043,208	10.0018725	9.9981275	9956,978	41
13629	11.0298670	106683,36	40	20	10043,480	10.0018842	9.9981158	9956,708	40
13588	11.0285041	106303,19	39	21	10043,753	10.0018960	9.9981040	9956,437	39
13545	11.0271453	105923,02	38	22	10044,028	10.0019079	9.9980921	9956,165	38
13503	11.0257908	105542,85	37	23	10044,302	10.0019198	9.9980802	9955,893	37
13461	11.0244403	105162,68	36	24	10044,578	10.0019317	9.9980683	9955,620	36
13419	11.0230940	104782,51	35	25	10044,855	10.0019437	9.9980563	9955,345	35
13378	11.0217517	104402,34	34	26	10045,132	10.0019557	9.9980443	9955,070	34
13336	11.0204135	104022,17	33	27	10045,411	10.0019677	9.9980323	9954,795	33
13295	11.0190794	103642,00	32	28	10045,690	10.0019798	9.9980202	9954,518	32
13254	11.0177493	103261,83	31	29	10045,970	10.0019919	9.9980081	9954,240	31
13213	11.0164231	102881,66	30	30	10046,251	10.0020040	9.9979960	9953,962	30
13172	11.0151009	102501,49	29	31	10046,533	10.0020162	9.9979838	9953,683	29
13131	11.0137827	102121,32	28	32	10046,815	10.0020284	9.9979716	9953,403	28
13090	11.0124683	101741,15	27	33	10047,099	10.0020407	9.9979593	9953,122	27
13049	11.0111579	101360,98	26	34	10047,383	10.0020530	9.9979470	9952,840	26
13008	11.0098513	100980,81	25	35	10047,669	10.0020653	9.9979347	9952,557	25
12967	11.0085486	100600,64	24	36	10047,955	10.0020777	9.9979223	9952,274	24
12926	11.0072497	100220,47	23	37	10048,242	10.0020901	9.9979099	9951,990	23
12885	11.0059546	99840,30	22	38	10048,530	10.0021025	9.9978975	9951,705	22
12844	11.0046633	99460,13	21	39	10048,819	10.0021150	9.9978850	9951,419	21
12803	11.0033757	99080,00	20	40	10049,108	10.0021275	9.9978725	9951,132	20
12762	11.0020919	98700,00	19	41	10049,399	10.0021401	9.9978599	9950,844	19
12721	11.0008117	98320,00	18	42	10049,690	10.0021527	9.9978473	9950,556	18
12680	10.9995353	97940,00	17	43	10049,982	10.0021653	9.9978347	9950,266	17
12639	10.9982625	97560,00	16	44	10050,275	10.0021780	9.9978220	9949,976	16
12598	10.9969934	97180,00	15	45	10050,569	10.0021907	9.9978093	9949,685	15
12557	10.9957279	96800,00	14	46	10050,864	10.0022034	9.9977966	9949,393	14
12516	10.9944660	96420,00	13	47	10051,160	10.0022162	9.9977838	9949,101	13
12475	10.9932076	96040,00	12	48	10051,456	10.0022290	9.9977710	9948,807	12
12434	10.9919529	95660,00	11	49	10051,754	10.0022418	9.9977582	9948,513	11
12393	10.9907016	95280,00	10	50	10052,052	10.0022547	9.9977453	9948,217	10
12352	10.9894539	94900,00	9	51	10052,351	10.0022677	9.9977323	9947,921	9
12311	10.9882097	94520,00	8	52	10052,651	10.0022806	9.9977194	9947,625	8
12270	10.9869690	94140,00	7	53	10052,952	10.0022936	9.9977064	9947,327	7
12229	10.9857318	93760,00	6	54	10053,254	10.0023067	9.9976933	9947,028	6
12188	10.9844979	93380,00	5	55	10053,557	10.0023197	9.9976803	9946,729	5
12147	10.9832675	93000,00	4	56	10053,860	10.0023328	9.9976672	9946,428	4
12106	10.9820406	92620,00	3	57	10054,164	10.0023460	9.9976540	9946,127	3
12065	10.9808169	92240,00	2	58	10054,470	10.0023592	9.9976408	9945,825	2
12024	10.9795967	91860,00	1	59	10054,776	10.0023724	9.9976276	9945,523	1
12000	10.9783798	91480,00	0	60	10055,083	10.0023857	9.9976143	9945,219	0
Diff.	L. Tang.	N. Tan.	M.	Co-secants		D.	L. Sine N. Sine M.		

# 6 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants		M. N. Tan	L. Tan	Diff.	
1	005,285	0.0192344	109807654	95667,722	50	1005,1042	900216200	12136
2	1048,178	0.0204341	109795652	95403,686	59	1005,983	900228338	1210
3	1051,070	0.0216318	109783682	95141,110	58	1005,862	900240404	1206
4	1053,963	0.0228254	109771746	94879,984	57	1005,740	900252451	1203
5	1056,856	0.0240157	109759843	94620,290	56	1005,618	900264484	1200
6	1059,748	0.0252027	109747973	94362,033	55	1005,495	900276506	1197
7	1062,641	0.0263863	109736133	94105,184	54	1005,372	900288524	1194
8	1065,533	0.0275669	109724331	93849,738	53	1005,249	900300536	1190
9	1068,425	0.0287442	109712558	93595,682	52	1005,126	900312542	1187
10	1071,318	0.0299182	109700818	93343,006	51	1004,999	900324545	1184
11	1074,210	0.0310890	109689110	93091,699	50	1004,872	900336546	1181
12	1077,102	0.0322567	109677433	92841,749	49	1004,745	900348545	1178
13	1079,994	0.0334212	109665788	92593,145	48	1004,618	900360542	1175
14	1082,885	0.0345825	109654175	92345,877	47	1004,491	900372537	1172
15	1085,777	0.0357407	109642593	92099,934	46	1004,364	900384530	1169
16	1088,669	0.0368958	109631042	91855,305	45	1004,237	900396521	1166
17	1091,560	0.0380477	109619523	91611,980	44	1004,110	900408510	1163
18	1094,452	0.0391966	109608034	91369,949	43	1003,983	900420497	1160
19	1097,343	0.0403424	109596576	91129,200	42	1003,856	900432482	1157
20	1100,234	0.0414852	109585148	90889,725	41	1003,729	900444465	1154
21	1103,126	0.0426249	109573751	90651,512	40	1003,602	900456446	1151
22	1106,017	0.0437617	109562383	90414,553	39	1003,475	900468425	1148
23	1108,908	0.0448954	109551046	90178,837	38	1003,348	900480402	1145
24	1111,799	0.0460261	109539739	89944,354	37	1003,221	900492377	1142
25	1114,689	0.0471538	109528462	89711,095	36	1003,094	900504350	1139
26	1117,580	0.0482786	109517214	89479,051	35	1002,967	900516321	1136
27	1120,471	0.0494005	109505995	89248,211	34	1002,840	900528290	1133
28	1123,361	0.0505194	109494806	89018,567	33	1002,713	900540257	1130
29	1126,252	0.0516354	109483646	88790,109	32	1002,586	900552222	1127
30	1129,142	0.0527485	109472515	88562,820	31	1002,459	900564185	1124
31	1132,032	0.0538588	109461412	88336,715	30	1002,332	900576146	1121
32	1134,922	0.0549661	109450339	88111,761	29	1002,205	900588105	1118
33	1137,812	0.0560706	109439294	87887,957	28	1002,078	900600062	1115
34	1140,702	0.0571723	109428277	87665,295	27	1001,951	900612017	1112
35	1143,592	0.0582717	109417289	87443,766	26	1001,824	900623970	1109
36	1146,482	0.0593692	109406328	87223,361	25	1001,697	900635921	1106
37	1149,372	0.0604604	109395396	87004,071	24	1001,570	900647870	1103
38	1152,261	0.0615509	109384491	86785,889	23	1001,443	900659817	1100
39	1155,151	0.0626386	109373614	86568,805	22	1001,316	900671762	1097
40	1158,040	0.0637235	109362765	86352,812	21	1001,189	900683705	1094
41	1160,929	0.0648057	109351943	86137,901	20	1001,062	900695646	1091
42	1163,818	0.0658852	109341148	85924,065	19	1000,935	900707585	1088
43	1166,707	0.0669619	109330381	85711,295	18	1000,808	900719522	1085
44	1169,596	0.0680360	109319640	85499,584	17	1000,681	900731457	1082
45	1172,485	0.0691074	109308926	85288,923	16	1000,554	900743390	1079
46	1175,374	0.0701761	109298239	85079,304	15	1000,427	900755321	1076
47	1178,263	0.0712421	109287579	84870,721	14	1000,300	900767250	1073
48	1181,151	0.0723055	109276945	84663,163	13	1000,173	900779177	1070
49	1184,040	0.0733663	109266337	84456,629	12	1000,046	900791102	1067
50	1186,928	0.0744244	109255756	84251,105	11	999,919	900803025	1064
51	1189,816	0.0754799	109245201	84046,586	10	999,792	900814946	1061
52	1192,704	0.0765329	109234671	83843,065	9	999,665	900826865	1058
53	1195,593	0.0775832	109224168	83640,534	8	999,538	900838782	1055
54	1198,481	0.0786310	109213690	83438,986	7	999,411	900850697	1052
55	1201,368	0.0796762	109203238	83238,418	6	999,284	900862610	1049
56	1204,256	0.0807189	109192811	83038,812	5	999,157	900874521	1046
57	1207,144	0.0817590	109182410	82840,171	4	999,030	900886430	1043
58	1210,031	0.0827966	109172034	82642,485	3	998,903	900898337	1040
59	1212,919	0.0838317	109161683	82445,748	2	998,776	900910242	1037
60	1215,806	0.0848643	109151357	82249,952	1	998,649	900922145	1034
61	1218,693	0.0858945	109141055	82055,090	0	998,522	900934046	1031
Co-fines			Diff.	L. Sec.	N. Sec.	M	Co-tangents	Diff.

# 6 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
12136	10.9783798	95143.643	60	10055.083	10.0023857	132	9.9976143	9945.219	60	
12103	10.9771166	94878.149	59	10055.391	10.0023989	134	9.9976011	9944.914	59	
12069	10.9759559	94614.116	58	10055.699	10.0024123	134	9.9975877	9944.609	58	
12038	10.9747490	94351.531	57	10056.009	10.0024257	134	9.9975743	9944.303	57	
12004	10.9735432	94090.384	56	10056.319	10.0024391	134	9.9975609	9943.996	56	
11972	10.9723448	93830.663	55	10056.631	10.0024525	135	9.9975475	9943.688	55	
11940	10.9711476	93572.355	54	10056.943	10.0024660	135	9.9975340	9943.379	54	
11909	10.9699536	93315.450	53	10057.256	10.0024795	136	9.9975205	9943.070	53	
11876	10.9687627	93059.936	52	10057.570	10.0024931	136	9.9975069	9942.760	52	
11844	10.9675751	92805.802	51	10057.885	10.0025067	136	9.9974933	9942.448	51	
11813	10.9663907	92553.035	50	10058.200	10.0025203	137	9.9974797	9942.136	50	
11782	10.9652094	92301.627	49	10058.517	10.0025340	137	9.9974660	9941.823	49	
11751	10.9640312	92051.564	48	10058.834	10.0025477	137	9.9974523	9941.510	48	
11720	10.9628561	91802.838	47	10059.153	10.0025614	138	9.9974386	9941.195	47	
11689	10.9616841	91555.446	46	10059.472	10.0025752	138	9.9974248	9940.880	46	
11658	10.9605152	91309.348	45	10059.792	10.0025890	139	9.9974110	9940.563	45	
11628	10.9593494	91064.564	44	10060.113	10.0026029	139	9.9973971	9940.246	44	
11597	10.9581866	90821.074	43	10060.435	10.0026167	140	9.9973833	9939.928	43	
11568	10.9570265	90578.867	42	10060.757	10.0026307	139	9.9973695	9939.610	42	
11537	10.9558701	90337.933	41	10061.081	10.0026446	140	9.9973554	9939.290	41	
11507	10.9547164	90098.261	40	10061.405	10.0026586	141	9.9973414	9938.969	40	
11478	10.9535657	89859.843	39	10061.731	10.0026727	141	9.9973273	9938.648	39	
11449	10.9524179	89622.668	38	10062.057	10.0026868	141	9.9973132	9938.326	38	
11419	10.9512730	89386.726	37	10062.384	10.0027009	141	9.9972991	9938.003	37	
11389	10.9501311	89152.009	36	10062.712	10.0027150	142	9.9972850	9937.679	36	
11360	10.9489922	88918.505	35	10063.040	10.0027292	142	9.9972708	9937.355	35	
11332	10.9478561	88686.206	34	10063.370	10.0027434	143	9.9972566	9937.029	34	
11303	10.9467225	88455.103	33	10063.701	10.0027577	143	9.9972423	9936.703	33	
11275	10.9455926	88225.186	32	10064.032	10.0027720	143	9.9972280	9936.375	32	
11246	10.9444651	87996.446	31	10064.364	10.0027863	144	9.9972137	9936.047	31	
11218	10.9433405	87768.874	30	10064.697	10.0028007	144	9.9971993	9935.719	30	
11189	10.9422187	87542.461	29	10065.031	10.0028151	145	9.9971849	9935.389	29	
11162	10.9410998	87317.198	28	10065.366	10.0028296	145	9.9971704	9935.058	28	
11133	10.9399836	87093.077	27	10065.702	10.0028441	145	9.9971559	9934.727	27	
11106	10.9388703	86870.088	26	10066.039	10.0028586	146	9.9971414	9934.395	26	
11079	10.9377597	86648.232	25	10066.376	10.0028732	146	9.9971268	9934.062	25	
11051	10.9366518	86427.475	24	10066.714	10.0028878	146	9.9971122	9933.728	24	
11023	10.9355467	86207.833	23	10067.054	10.0029024	147	9.9970976	9933.393	23	
10997	10.9344444	85989.290	22	10067.394	10.0029171	147	9.9970829	9933.057	22	
10969	10.9333447	85771.838	21	10067.735	10.0029318	147	9.9970682	9932.721	21	
10943	10.9322478	85555.468	20	10068.077	10.0029465	148	9.9970535	9932.384	20	
10916	10.9311535	85340.172	19	10068.419	10.0029613	148	9.9970387	9932.045	19	
10889	10.9300615	85125.943	18	10068.763	10.0029761	149	9.9970239	9931.706	18	
10863	10.9289730	84912.772	17	10069.108	10.0029910	149	9.9970090	9931.367	17	
10836	10.9278867	84700.651	16	10069.453	10.0030059	149	9.9969941	9931.026	16	
10810	10.9268031	84489.573	15	10069.799	10.0030208	150	9.9969792	9930.685	15	
10784	10.9257221	84279.531	14	10070.146	10.0030358	150	9.9969642	9930.342	14	
10758	10.9246437	84070.515	13	10070.494	10.0030508	150	9.9969492	9929.999	13	
10732	10.9235679	83862.519	12	10070.843	10.0030658	151	9.9969342	9929.655	12	
10707	10.9224947	83655.536	11	10071.193	10.0030809	151	9.9969191	9929.311	11	
10681	10.9214240	83449.558	10	10071.544	10.0030960	152	9.9969040	9928.965	10	
10655	10.9203559	83244.577	9	10071.895	10.0031112	152	9.9968888	9928.618	9	
10630	10.9192904	83040.586	8	10072.248	10.0031264	152	9.9968736	9928.271	8	
10605	10.9182274	82837.579	7	10072.601	10.0031416	153	9.9968584	9927.922	7	
10580	10.9171666	82635.547	6	10072.955	10.0031569	153	9.9968431	9927.573	6	
10555	10.9161089	82434.485	5	10073.310	10.0031722	153	9.9968278	9927.224	5	
10530	10.9150534	82234.384	4	10073.666	10.0031875	154	9.9968125	9926.873	4	
10505	10.9140004	82035.233	3	10074.023	10.0032029	154	9.9967971	9926.521	3	
10480	10.9129499	81837.041	2	10074.380	10.0032183	154	9.9967817	9926.169	2	
10457	10.9119019	81639.786	1	10074.735	10.0032338	155	9.9967662	9925.816	1	
	10.9108562	81443.464	0	10075.098	10.0032493	155	9.9967507	9925.462	0	
Diff.	L. Tang	N. Tan.	M	Co-Secants		D	L. Sine	N. Sine	M	

# 83 Degrees

# 7 Degrees

M	N	Sine	L. Sine	Diff.	Co-secants		M	N	Tan.	L. Tan	Diff.
					10.9141055	82055,090 60					
1	1218,699	9.0858945	10276		10.9130779	81861,157 59	1	1230,798	9.0901869	10431	
2	1221,581	9.0869221	10252		10.9120527	81668,145 58	2	1233,758	9.0912277	10401	
3	1224,468	9.0879473	10227		10.9110300	81476,048 57	3	1236,705	9.0922660	10368	
4	1227,355	9.0889700	10203		10.9100097	81284,860 56	4	1239,658	9.0933020	10333	
5	1230,241	9.0899903	10179		10.9089918	81094,573 55	5	1242,612	9.0943355	10298	
6	1233,128	9.0910082	10155		10.9079763	80905,182 54	6	1245,566	9.0953667	10263	
7	1236,015	9.0920237	10130		10.9069633	80716,681 53	7	1248,520	9.0963955	10228	
8	1238,901	9.0930367	10107		10.9059520	80529,062 52	8	1251,474	9.0974219	10193	
9	1241,788	9.0940474	10082		10.9049444	80342,321 51	9	1254,429	9.0984460	10158	
10	1244,674	9.0950556	10059		10.9039385	80156,450 50	10	1257,384	9.0994678	10123	
11	1247,560	9.0960615	10036		10.9029349	79971,445 49	11	1260,339	9.1004872	10088	
12	1250,446	9.0970651	10011		10.9019338	79787,298 48	12	1263,294	9.1015044	10053	
13	1253,332	9.0980662	9989		10.9009349	79604,003 47	13	1266,249	9.1025192	10018	
14	1256,218	9.0990651	9965		10.8999384	79421,550 46	14	1269,205	9.1035317	9983	
15	1259,104	9.1000616	9942		10.8989442	79239,050 45	15	1272,161	9.1045420	9948	
16	1261,990	9.1010558	9919		10.8979523	79059,179 44	16	1275,117	9.1055500	9913	
17	1264,875	9.1020477	9896		10.8969627	78879,238 43	17	1278,073	9.1065557	9878	
18	1267,761	9.1030373	9873		10.8959754	78700,120 42	18	1281,030	9.1075591	9843	
19	1270,646	9.1040246	9850		10.8949904	78521,821 41	19	1283,986	9.1085604	9808	
20	1273,531	9.1050096	9828		10.8940076	78344,335 40	20	1286,943	9.1095594	9773	
21	1276,416	9.1059924	9805		10.8930271	78167,656 39	21	1289,900	9.1105562	9738	
22	1279,302	9.1069729	9783		10.8920488	77991,778 38	22	1292,858	9.1115508	9703	
23	1282,188	9.1079512	9760		10.8910728	77816,697 37	23	1295,815	9.1125431	9668	
24	1285,071	9.1089272	9738		10.8900990	77642,406 36	24	1298,773	9.1135333	9633	
25	1287,956	9.1099010	9716		10.8891274	77468,901 35	25	1301,731	9.1145213	9598	
26	1290,841	9.1108726	9694		10.8881580	77296,176 34	26	1304,690	9.1155072	9563	
27	1293,725	9.1118420	9672		10.8871908	77124,227 33	27	1307,648	9.1164909	9528	
28	1296,609	9.1128092	9650		10.8862258	76953,047 32	28	1310,607	9.1174724	9493	
29	1299,494	9.1137744	9628		10.8852630	76782,631 31	29	1313,566	9.1184518	9458	
30	1302,378	9.1147370	9607		10.8843023	76612,976 30	30	1316,525	9.1194291	9423	
31	1305,262	9.1156977	9585		10.8833438	76444,075 29	31	1319,484	9.1204043	9388	
32	1308,146	9.1166562	9563		10.8823875	76275,923 28	32	1322,444	9.1213773	9353	
33	1311,030	9.1176125	9542		10.8814333	76108,516 27	33	1325,404	9.1223482	9318	
34	1313,913	9.1185667	9521		10.8804812	75941,849 26	34	1328,364	9.1233171	9283	
35	1316,797	9.1195188	9500		10.8795312	75775,916 25	35	1331,324	9.1242843	9248	
36	1319,681	9.1204688	9479		10.8785833	75610,713 24	36	1334,285	9.1252486	9213	
37	1322,564	9.1214167	9457		10.8776376	75446,236 23	37	1337,246	9.1262112	9178	
38	1325,447	9.1223624	9437		10.8766939	75282,478 22	38	1340,207	9.1271718	9143	
39	1328,330	9.1233061	9416		10.8757523	75119,437 21	39	1343,168	9.1281303	9108	
40	1331,213	9.1242477	9395		10.8748128	74957,106 20	40	1346,129	9.1290868	9073	
41	1334,096	9.1251872	9374		10.8738754	74795,482 19	41	1349,091	9.1300413	9038	
42	1336,979	9.1261246	9354		10.8729400	74634,560 18	42	1352,053	9.1309937	9003	
43	1339,862	9.1270600	9334		10.8720066	74474,335 17	43	1355,015	9.1319444	8968	
44	1342,744	9.1279934	9313		10.8710753	74314,803 16	44	1357,978	9.1328926	8933	
45	1345,627	9.1289247	9292		10.8701461	74155,959 15	45	1360,940	9.1338391	8898	
46	1348,509	9.1298539	9273		10.8692188	73997,798 14	46	1363,903	9.1347835	8863	
47	1351,392	9.1307812	9252		10.8682936	73840,318 13	47	1366,866	9.1357260	8828	
48	1354,274	9.1317064	9233		10.8673703	73683,512 12	48	1369,830	9.1366665	8793	
49	1357,156	9.1326297	9212		10.8664491	73527,377 11	49	1372,793	9.1376051	8758	
50	1360,038	9.1335509	9193		10.8655298	73371,909 10	50	1375,757	9.1385417	8723	
51	1362,919	9.1344702	9173		10.8646125	73217,102 9	51	1378,721	9.1394764	8688	
52	1365,801	9.1353875	9153		10.8636972	73062,954 8	52	1381,685	9.1404092	8653	
53	1368,683	9.1363028	9133		10.8627839	72909,460 7	53	1384,650	9.1413400	8618	
54	1371,564	9.1372161	9114		10.8618725	72756,616 6	54	1387,615	9.1422689	8583	
55	1374,445	9.1381275	9095		10.8609630	72604,417 5	55	1390,580	9.1431959	8548	
56	1377,327	9.1390370	9075		10.8600555	72452,859 4	56	1393,545	9.1441210	8513	
57	1380,208	9.1399445	9056		10.8591499	72301,940 3	57	1396,510	9.1450442	8478	
58	1383,089	9.1408501	9036		10.8582463	72151,653 2	58	1399,476	9.1459655	8443	
59	1385,970	9.1417537	9018		10.8573445	72001,996 1	59	1402,442	9.1468849	8408	
60	1388,850	9.1426555	8998		10.8564447	71852,965 0	60	1405,408	9.1478025	8373	
61	1391,731	9.1435553									
Co-fines				Diff.	L. Sec.	N. Sec.	Co-tangents				Diff.

82 Degrees

# 7 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-lines		
	10.9108562	81443,46	60		10075,098	10.0032493		9.9967507	9925,462	60
10431	10.9098,31	81248,07	59	1	10075,459	10.0032648	155	9.9967352	9925,107	59
10408	10.9087723	81053,599	58	2	10075,820	10.0032804	156	9.9967196	9924,751	58
10383	10.9077340	80860,042	57	3	10076,182	10.0032960	156	9.9967040	9924,394	57
10360	10.9066980	80667,394	56	4	10076,545	10.0033116	156	9.9966884	9924,037	56
10335	10.9056645	80475,647	55	5	10076,908	10.0033273	157	9.9966727	9923,679	55
10312	10.9046333	80284,796	54	6	10077,273	10.0033430	157	9.9966570	9923,319	54
10288	10.9036045	80094,835	53	7	10077,639	10.0033588	158	9.9966412	9922,959	53
10264	10.9025781	79905,756	52	8	10078,005	10.0033746	158	9.9966254	9922,599	52
10241	10.9015540	79717,555	51	9	10078,372	10.0033904	158	9.9966096	9922,237	51
10218	10.9005322	79530,224	50	10	10078,741	10.0034063	159	9.9965937	9921,874	50
10194	10.8995128	79343,758	49	11	10079,110	10.0034222	159	9.9965778	9921,511	49
10172	10.8984956	79158,151	48	12	10079,480	10.0034381	159	9.9965619	9921,147	48
10148	10.8974800	78973,396	47	13	10079,851	10.0034541	160	9.9965459	9920,782	47
10125	10.8964683	78789,489	46	14	10080,222	10.0034701	160	9.9965299	9920,416	46
10103	10.8954580	78606,023	45	15	10080,595	10.0034862	161	9.9965138	9920,049	45
10080	10.8944500	78424,191	44	16	10080,968	10.0035023	161	9.9964977	9919,682	44
10057	10.8934443	78242,790	43	17	10081,343	10.0035184	161	9.9964816	9919,314	43
10034	10.8924409	78062,212	42	18	10081,718	10.0035345	161	9.9964655	9918,944	42
10013	10.8914390	77882,453	41	19	10082,094	10.0035507	162	9.9964493	9918,574	41
9990	10.8904406	77703,506	40	20	10082,471	10.0035670	163	9.9964330	9918,204	40
9968	10.8894438	77525,366	39	21	10082,849	10.0035833	163	9.9964167	9917,832	39
9946	10.8884492	77348,028	38	22	10083,228	10.0035996	163	9.9964004	9917,459	38
9923	10.8874569	77171,486	37	23	10083,607	10.0036159	163	9.9963841	9917,086	37
9902	10.8864667	76995,735	36	24	10083,988	10.0036323	164	9.9963677	9916,712	36
9880	10.8854787	76820,769	35	25	10084,369	10.0036487	164	9.9963513	9916,337	35
9859	10.8844928	76646,584	34	26	10084,752	10.0036652	165	9.9963348	9915,961	34
9837	10.8835091	76473,174	33	27	10085,135	10.0036817	165	9.9963183	9915,584	33
9815	10.8825276	76300,533	32	28	10085,519	10.0036982	165	9.9963018	9915,206	32
9794	10.8815482	76128,657	31	29	10085,904	10.0037148	166	9.9962852	9914,828	31
9773	10.8805709	75957,541	30	30	10086,290	10.0037314	166	9.9962686	9914,449	30
9752	10.8795957	75787,179	29	31	10086,676	10.0037481	167	9.9962519	9914,069	29
9730	10.8786227	75617,567	28	32	10087,064	10.0037648	167	9.9962352	9913,688	28
9709	10.8776518	75448,699	27	33	10087,452	10.0037815	167	9.9962185	9913,306	27
9689	10.8766829	75280,571	26	34	10087,842	10.0037983	168	9.9962017	9912,923	26
9668	10.8757161	75113,178	25	35	10088,232	10.0038151	168	9.9961849	9912,540	25
9647	10.8747514	74946,514	24	36	10088,623	10.0038319	168	9.9961681	9912,155	24
9626	10.8737888	74780,576	23	37	10089,015	10.0038488	169	9.9961512	9911,770	23
9606	10.8728282	74615,357	22	38	10089,408	10.0038657	169	9.9961343	9911,384	22
9585	10.8718697	74450,855	21	39	10089,802	10.0038826	169	9.9961174	9910,997	21
9565	10.8709132	74287,064	20	40	10090,196	10.0038996	170	9.9961004	9910,610	20
9545	10.8699587	74123,978	19	41	10090,592	10.0039166	170	9.9960834	9910,221	19
9524	10.8690063	73961,595	18	42	10090,988	10.0039337	171	9.9960663	9909,832	18
9505	10.8680558	73799,909	17	43	10091,386	10.0039508	171	9.9960492	9909,442	17
9484	10.8671074	73638,916	16	44	10091,784	10.0039679	171	9.9960321	9909,051	16
9465	10.8661609	73478,610	15	45	10092,183	10.0039851	172	9.9960149	9908,659	15
9444	10.8652165	73318,989	14	46	10092,583	10.0040023	172	9.9959977	9908,266	14
9425	10.8642740	73160,047	13	47	10092,984	10.0040196	173	9.9959804	9907,873	13
9405	10.8633335	73001,780	12	48	10093,386	10.0040369	173	9.9959631	9907,478	12
9386	10.8623949	72844,184	11	49	10093,788	10.0040542	173	9.9959458	9907,083	11
9366	10.8614583	72687,255	10	50	10094,192	10.0040716	174	9.9959284	9906,687	10
9347	10.8605236	72530,987	9	51	10094,596	10.0040889	174	9.9959111	9906,290	9
9328	10.8595908	72375,378	8	52	10095,001	10.0041064	175	9.9958936	9905,893	8
9308	10.8586600	72220,422	7	53	10095,408	10.0041239	175	9.9958761	9905,494	7
9289	10.8577311	72066,116	6	54	10095,815	10.0041414	175	9.9958586	9905,095	6
9270	10.8568041	71912,456	5	55	10096,223	10.0041589	175	9.9958411	9904,694	5
9251	10.8558790	71759,437	4	56	10096,631	10.0041765	176	9.9958235	9904,293	4
9232	10.8549558	71607,056	3	57	10097,041	10.0041941	176	9.9958059	9903,891	3
9213	10.8540345	71455,308	2	58	10097,452	10.0042118	177	9.9957882	9903,488	2
9194	10.8531151	71304,190	1	59	10097,863	10.0042295	177	9.9957705	9903,085	1
9176	10.8521975	71153,697	0	60	10098,276	10.0042472	177	9.9957528	9902,681	0
Diff.	L. Tang. N. Tan. M.				Co-secants			D	L. Sine N. Sine	M.

82 Degrees

Dd

## 8 Degrees

M	N. Sine	L. Sine	Diff	Co-secants		M	N. Tan.	L. Tan.	Diff.
0	1391,731	9.1435553	8979	10.8564447	71852,965	60	1405,408	9.1478023	9157
1	1394,612	9.1444532	8961	10.8555468	71704,556	59	1408,375	9.1487182	9139
2	1397,492	9.1453493	8942	10.8546507	71556,764	58	1411,342	9.1496321	9120
3	1400,372	9.1462435	8923	10.8537565	71409,587	57	1414,308	9.1505441	9102
4	1403,252	9.1471358	8904	10.8528642	71263,019	56	1417,276	9.1514543	9084
5	1406,132	9.1480262	8886	10.8519738	71117,059	55	1420,243	9.1523627	9065
6	1409,012	9.1489148	8867	10.8510852	70971,700	54	1423,211	9.1532692	9047
7	1411,892	9.1498015	8849	10.8501985	70826,941	53	1426,179	9.1541739	9030
8	1414,772	9.1506864	8830	10.8493136	70682,777	52	1429,147	9.1550769	9011
9	1417,651	9.1515694	8813	10.8484306	70539,205	51	1432,115	9.1559786	8993
10	1420,531	9.1524507	8794	10.8475493	70396,220	50	1435,084	9.1568773	8975
11	1423,410	9.1533301	8775	10.8466699	70253,820	49	1438,053	9.1577748	8958
12	1426,289	9.1542076	8758	10.8457924	70112,001	48	1441,022	9.1586706	8940
13	1429,168	9.1550834	8740	10.8449166	69970,760	47	1443,991	9.1595646	8923
14	1432,047	9.1559574	8722	10.8440426	69830,092	46	1446,961	9.1604569	8904
15	1434,926	9.1568296	8704	10.8431704	69689,994	45	1449,931	9.1613473	8886
16	1437,805	9.1577000	8686	10.8423000	69550,464	44	1452,901	9.1622361	8868
17	1440,684	9.1585686	8668	10.8414314	69411,496	43	1455,872	9.1631231	8850
18	1443,562	9.1594354	8651	10.8405646	69273,089	42	1458,842	9.1640083	8832
19	1446,440	9.1603005	8634	10.8396995	69135,239	41	1461,813	9.1648919	8814
20	1449,319	9.1611639	8615	10.8388361	68997,942	40	1464,784	9.1657737	8796
21	1452,197	9.1620254	8599	10.8379746	68861,195	39	1467,756	9.1666532	8778
22	1455,075	9.1628855	8581	10.8371147	68724,995	38	1470,727	9.1675318	8760
23	1457,953	9.1637434	8564	10.8362566	68589,338	37	1473,699	9.1684089	8742
24	1460,830	9.1645998	8546	10.8354002	68454,222	36	1476,672	9.1692839	8724
25	1463,708	9.1654544	8530	10.8345456	68319,642	35	1479,644	9.1701572	8706
26	1466,585	9.1663074	8512	10.8336926	68185,597	34	1482,617	9.1710288	8688
27	1469,463	9.1671586	8495	10.8328414	68052,082	33	1485,590	9.1718989	8670
28	1472,340	9.1680081	8478	10.8319919	67919,095	32	1488,563	9.1727672	8652
29	1475,217	9.1688559	8462	10.8311441	67786,632	31	1491,536	9.1736338	8634
30	1478,094	9.1697021	8444	10.8302979	67654,691	30	1494,510	9.1744988	8616
31	1480,971	9.1705465	8428	10.8294535	67523,268	29	1497,484	9.1753622	8598
32	1483,848	9.1713893	8412	10.8286107	67392,360	28	1500,458	9.1762239	8580
33	1486,724	9.1722305	8394	10.8277695	67261,965	27	1503,433	9.1770840	8562
34	1489,601	9.1730699	8378	10.8269301	67132,079	26	1506,408	9.1779425	8544
35	1492,477	9.1739077	8362	10.8260923	67002,699	25	1509,383	9.1787993	8526
36	1495,353	9.1747439	8345	10.8252561	66873,822	24	1512,358	9.1796546	8508
37	1498,230	9.1755784	8328	10.8244216	66745,446	23	1515,333	9.1805082	8490
38	1501,106	9.1764112	8313	10.8235888	66617,568	22	1518,309	9.1813602	8472
39	1503,981	9.1772425	8296	10.8227575	66490,184	21	1521,285	9.1822106	8454
40	1506,857	9.1780721	8280	10.8219279	66363,293	20	1524,262	9.1830595	8436
41	1509,733	9.1789001	8264	10.8210995	66236,809	19	1527,238	9.1839068	8418
42	1512,608	9.1797265	8247	10.8202735	66110,973	18	1530,215	9.1847525	8400
43	1515,484	9.1805512	8232	10.8194488	65985,540	17	1533,192	9.1855966	8382
44	1518,359	9.1813744	8216	10.8186256	65860,587	16	1536,170	9.1864392	8364
45	1521,234	9.1821960	8200	10.8178040	65736,112	15	1539,147	9.1872802	8346
46	1524,109	9.1830160	8184	10.8169840	65612,113	14	1542,125	9.1881196	8328
47	1526,984	9.1838344	8168	10.8161656	65488,586	13	1545,103	9.1889575	8310
48	1529,858	9.1846512	8153	10.8153488	65365,528	12	1548,082	9.1897939	8292
49	1532,733	9.1854665	8137	10.8145335	65242,938	11	1551,061	9.1906287	8274
50	1535,607	9.1862802	8121	10.8137198	65120,812	10	1554,040	9.1914621	8256
51	1538,482	9.1870923	8106	10.8129077	64999,148	9	1557,019	9.1922939	8238
52	1541,356	9.1879029	8091	10.8120971	64877,944	8	1560,000	9.1931241	8220
53	1544,230	9.1887120	8075	10.8112880	64757,195	7	1562,978	9.1939529	8202
54	1547,104	9.1895195	8059	10.8104805	64636,901	6	1565,958	9.1947802	8184
55	1549,978	9.1903254	8045	10.8096746	64517,059	5	1568,939	9.1956059	8166
56	1552,851	9.1911299	8029	10.8088701	64397,666	4	1571,919	9.1964302	8148
57	1555,725	9.1919328	8014	10.8080672	64278,719	3	1574,900	9.1972530	8130
58	1558,598	9.1927342	7999	10.8072658	64160,216	2	1577,881	9.1980743	8112
59	1561,472	9.1935341	7983	10.8064659	64042,154	1	1580,863	9.1988941	8094
60	1564,345	9.1943324	7968	10.8056676	63924,532	0	1583,844	9.1997125	8076
Co-fines				L. Sec.	N. Sec.	M	Co-tangents		

## 81 Degrees

## 8 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines		
9157	10.8521975	71153,697	60	0	10098,276	10.0042,472	9.9957328	9902,081	60
9139	10.8512818	71003,826	59	1	10098,689	10.0042650	9.9957350	9902,275	59
9120	10.8503679	70854,573	58	2	10099,103	10.0042828	9.9957172	9901,869	58
9102	10.8494559	70705,934	57	3	10099,518	10.0043007	9.9956993	9901,462	57
9084	10.8485457	70557,905	56	4	10099,934	10.0043185	9.9956815	9901,055	56
9065	10.8476373	70410,482	55	5	10100,351	10.0043363	9.9956635	9900,646	55
9047	10.8467308	70263,662	54	6	10100,769	10.0043544	9.9956456	9900,237	54
9030	10.8458261	70117,441	53	7	10101,187	10.0043724	9.9956276	9899,826	53
9011	10.8449231	69971,806	52	8	10101,607	10.0043905	9.9956095	9899,415	52
8993	10.8440220	69826,781	51	9	10102,027	10.0044085	9.9955915	9899,003	51
8975	10.8431227	69682,335	50	10	10102,449	10.0044266	9.9955734	9898,590	50
8958	10.8422252	69538,473	49	11	10102,871	10.0044448	9.9955552	9898,177	49
8940	10.8413294	69395,192	48	12	10103,294	10.0044630	9.9955370	9897,762	48
8923	10.8404354	69252,489	47	13	10103,718	10.0044812	9.9955188	9897,347	47
8904	10.8395431	69110,359	46	14	10104,143	10.0044995	9.9955005	9896,931	46
8888	10.8386527	68968,799	45	15	10104,568	10.0045178	9.9954822	9896,514	45
8870	10.8377639	68827,780	44	16	10104,995	10.0045361	9.9954639	9896,096	44
8852	10.8368769	68687,378	43	17	10105,422	10.0045545	9.9954455	9895,677	43
8836	10.8359917	68547,508	42	18	10105,851	10.0045729	9.9954271	9895,258	42
8818	10.8351081	68408,196	41	19	10106,280	10.0045913	9.9954087	9894,838	41
8801	10.8342263	68269,437	40	20	10106,710	10.0046098	9.9953902	9894,416	40
8784	10.8333462	68131,227	39	21	10107,141	10.0046283	9.9953717	9893,994	39
8767	10.8324678	67993,565	38	22	10107,573	10.0046469	9.9953531	9893,572	38
8750	10.8315911	67856,446	37	23	10108,006	10.0046655	9.9953345	9893,148	37
8733	10.8307161	67719,867	36	24	10108,440	10.0046841	9.9953159	9892,723	36
8717	10.8298428	67583,826	35	25	10108,875	10.0047028	9.9952972	9892,298	35
8700	10.8289711	67448,318	34	26	10109,310	10.0047215	9.9952785	9891,872	34
8683	10.8281011	67313,341	33	27	10109,747	10.0047403	9.9952597	9891,445	33
8666	10.8272328	67178,891	32	28	10110,184	10.0047591	9.9952409	9891,017	32
8650	10.8263662	67044,966	31	29	10110,622	10.0047779	9.9952221	9890,588	31
8634	10.8255012	66911,562	30	30	10111,061	10.0047967	9.9952033	9890,159	30
8617	10.8246378	66778,677	29	31	10111,501	10.0048156	9.9951844	9889,728	29
8601	10.8237761	66646,307	28	32	10111,942	10.0048346	9.9951654	9889,297	28
8585	10.8229160	66514,449	27	33	10112,384	10.0048536	9.9951464	9888,865	27
8568	10.8220573	66383,100	26	34	10112,827	10.0048726	9.9951274	9888,432	26
8553	10.8212007	66252,258	25	35	10113,270	10.0048916	9.9951084	9887,998	25
8536	10.8203454	66121,919	24	36	10113,715	10.0049107	9.9950893	9887,564	24
8520	10.8194918	65992,080	23	37	10114,160	10.0049298	9.9950702	9887,128	23
8504	10.8186398	65862,739	22	38	10114,606	10.0049490	9.9950510	9886,692	22
8489	10.8177894	65733,892	21	39	10115,054	10.0049682	9.9950318	9886,255	21
8473	10.8169405	65605,538	20	40	10115,502	10.0049874	9.9950126	9885,817	20
8457	10.8160932	65477,672	19	41	10115,951	10.0050067	9.9949933	9885,378	19
8441	10.8152475	65350,293	18	42	10116,400	10.0050260	9.9949740	9884,939	18
8426	10.8144034	65223,396	17	43	10116,851	10.0050454	9.9949546	9884,498	17
8410	10.8135608	65096,981	16	44	10117,303	10.0050648	9.9949352	9884,057	16
8394	10.8127198	64971,043	15	45	10117,755	10.0050842	9.9949158	9883,615	15
8379	10.8118804	64845,581	14	46	10118,209	10.0051036	9.9948964	9883,172	14
8364	10.8110425	64720,591	13	47	10118,663	10.0051231	9.9948769	9882,728	13
8348	10.8102061	64596,070	12	48	10119,118	10.0051427	9.9948573	9882,284	12
8334	10.8093713	64472,017	11	49	10119,575	10.0051623	9.9948377	9881,838	11
8318	10.8085379	64348,428	10	50	10120,032	10.0051819	9.9948181	9881,392	10
8302	10.8077061	64225,301	9	51	10120,489	10.0052015	9.9947985	9880,945	9
8288	10.8068759	64102,633	8	52	10120,948	10.0052212	9.9947788	9880,497	8
8273	10.8060471	63980,422	7	53	10121,408	10.0052409	9.9947591	9880,048	7
8257	10.8052198	63858,665	6	54	10121,869	10.0052607	9.9947393	9879,599	6
8243	10.8043941	63737,359	5	55	10122,330	10.0052805	9.9947195	9879,148	5
8228	10.8035698	63616,502	4	56	10122,793	10.0053003	9.9946997	9878,697	4
8213	10.8027470	63496,092	3	57	10123,256	10.0053202	9.9946798	9878,245	3
8198	10.8019257	63376,126	2	58	10123,720	10.0053401	9.9946599	9877,792	2
8184	10.8011059	63256,601	1	59	10124,185	10.0053601	9.9946399	9877,338	1
Diff.	10.8002875	63137,515	0	60	10124,651	10.0053801	9.9946199	9876,883	0
L. Tang.				Co-secants		D	L. Sine N. Sine		M

# 9 Degrees

M.	N. Sine	L. Sine	Diff	Co-secants		M.	N. Tan.	L. Tan.	Diff
0	1564,345	9.1943324		10.8056676	63924,532	60	0.1583,844	9.1997125	
1	1567,218	9.1951293	7969	10.8048707	63807,347	59	1.1586,826	9.2005294	8169
2	1570,091	9.1959247	7954	10.8040753	63690,595	58	2.1589,809	9.2013449	8155
3	1572,963	9.1967186	7939	10.8032814	63574,276	57	3.1592,791	9.2021588	8139
4	1575,836	9.1975110	7924	10.8024890	63458,386	56	4.1595,774	9.2029714	8126
5	1578,708	9.1983015	7909	10.8016981	63342,923	55	5.1598,757	9.2037825	8111
6	1581,581	9.1990913	7894	10.8009087	63227,884	54	6.1601,740	9.2045922	8097
7	1584,453	9.1998793	7880	10.8001207	63113,269	53	7.1604,724	9.2054004	8082
8	1587,325	9.2006658	7865	10.7993342	62999,073	52	8.1607,708	9.2062072	8068
9	1590,197	9.2014509	7851	10.7985491	62885,295	51	9.1610,692	9.2070126	8054
10	1593,069	9.2022345	7836	10.7977655	62771,933	50	10.1613,677	9.2078165	8039
11	1595,940	9.2030167	7822	10.7969833	62658,984	49	11.1616,662	9.2086191	8026
12	1598,812	9.2037974	7807	10.7962026	62546,446	48	12.1619,647	9.2094203	8012
13	1601,683	9.2045766	7792	10.7954234	62434,316	47	13.1622,632	9.2102200	7997
14	1604,555	9.2053545	7779	10.7946455	62322,594	46	14.1625,618	9.2110184	7984
15	1607,426	9.2061309	7764	10.7938691	62211,275	45	15.1628,603	9.2118153	7969
16	1610,297	9.2069059	7750	10.7930941	62100,359	44	16.1631,590	9.2126109	7956
17	1613,167	9.2076795	7736	10.7923205	61989,843	43	17.1634,576	9.2134051	7942
18	1616,038	9.2084516	7721	10.7915484	61879,725	42	18.1637,563	9.2141980	7929
19	1618,909	9.2092224	7708	10.7907776	61770,003	41	19.1640,550	9.2149894	7914
20	1621,779	9.2099917	7693	10.7900083	61660,674	40	20.1643,537	9.2157795	7901
21	1624,650	9.2107597	7680	10.7892403	61551,730	39	21.1646,525	9.2165683	7888
22	1627,520	9.2115263	7666	10.7884737	61443,189	38	22.1649,513	9.2173556	7873
23	1630,390	9.2122914	7651	10.7877086	61335,028	37	23.1652,501	9.2181417	7861
24	1633,260	9.2130552	7638	10.7869448	61227,253	36	24.1655,489	9.2189264	7847
25	1636,129	9.2138176	7624	10.7861824	61119,861	35	25.1658,478	9.2197097	7833
26	1638,999	9.2145787	7611	10.7854213	61012,850	34	26.1661,467	9.2204917	7820
27	1641,868	9.2153384	7597	10.7846616	60906,219	33	27.1664,456	9.2212724	7807
28	1644,738	9.2160967	7583	10.7839033	60799,964	32	28.1667,446	9.2220518	7795
29	1647,607	9.2168536	7569	10.7831464	60694,085	31	29.1670,436	9.2228298	7780
30	1650,476	9.2176092	7556	10.7823908	60588,580	30	30.1673,426	9.2236065	7767
31	1653,345	9.2183635	7543	10.7816365	60483,445	29	31.1676,417	9.2243819	7754
32	1656,214	9.2191164	7529	10.7808836	60378,680	28	32.1679,407	9.2251561	7742
33	1659,082	9.2198680	7516	10.7801320	60274,282	27	33.1682,398	9.2259289	7729
34	1661,951	9.2206182	7502	10.7793818	60170,250	26	34.1685,390	9.2267004	7713
35	1664,819	9.2213671	7489	10.7786329	60066,581	25	35.1688,381	9.2274706	7700
36	1667,687	9.2221147	7476	10.7778853	59963,274	24	36.1691,373	9.2282395	7685
37	1670,556	9.2228609	7462	10.7771391	59860,326	23	37.1694,366	9.2290071	7670
38	1673,423	9.2236059	7450	10.7763941	59757,737	22	38.1697,358	9.2297735	7654
39	1676,291	9.2243495	7436	10.7756505	59655,504	21	39.1700,351	9.2305386	7638
40	1679,159	9.2250918	7423	10.7749082	59553,625	20	40.1703,344	9.2313024	7622
41	1682,026	9.2258328	7410	10.7741672	59452,098	19	41.1706,338	9.2320650	7606
42	1684,894	9.2265725	7397	10.7734275	59350,922	18	42.1709,331	9.2328262	7591
43	1687,761	9.2273110	7385	10.7726890	59250,095	17	43.1712,325	9.2335863	7575
44	1690,628	9.2280481	7371	10.7719519	59149,614	16	44.1715,320	9.2343451	7559
45	1693,495	9.2287839	7358	10.7712161	59049,475	15	45.1718,314	9.2351026	7543
46	1696,362	9.2295185	7346	10.7704815	58949,688	14	46.1721,309	9.2358589	7527
47	1699,228	9.2302518	7333	10.7697482	58850,238	13	47.1724,304	9.2366139	7510
48	1702,095	9.2309838	7320	10.7690162	58751,128	12	48.1727,300	9.2373678	7495
49	1704,961	9.2317145	7307	10.7682855	58652,356	11	49.1730,296	9.2381205	7479
50	1707,828	9.2324440	7295	10.7675566	58553,921	10	50.1733,292	9.2388717	7464
51	1710,694	9.2331722	7282	10.7668278	58455,820	9	51.1736,288	9.2396218	7448
52	1713,560	9.2338992	7270	10.7660988	58358,053	8	52.1739,285	9.2403708	7433
53	1716,425	9.2346245	7257	10.7653751	58260,617	7	53.1742,282	9.2411185	7417
54	1719,291	9.2353494	7245	10.7646506	58163,510	6	54.1745,279	9.2418650	7402
55	1722,156	9.2360726	7232	10.7639274	58066,732	5	55.1748,277	9.2426103	7385
56	1725,022	9.2367946	7220	10.7632054	57970,280	4	56.1751,275	9.2433543	7370
57	1727,887	9.2375153	7207	10.7624847	57874,153	3	57.1754,273	9.2440972	7354
58	1730,752	9.2382345	7196	10.7617651	57778,350	2	58.1757,272	9.2448389	7339
59	1733,617	9.2389532	7183	10.7610468	57682,867	1	59.1760,271	9.2455794	7324
60	1736,482	9.2396702	7170	10.7603298	57587,705	0	60.1763,270	9.2463188	7309
Co-fines			Diff	L. Sec. N. Sec. M		Co-rangents			Diff

# 80 Degrees

9 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
8169	10.8002875	63137,515	60	c	10124,651	10.0053801		9.9946199	9876,883	60
8155	10.7994706	63018,866	59	1	10125,118	10.0054001	200	9.9945999	9876,428	55
8139	10.7986551	62900,651	58	2	10125,586	10.0054202	201	9.9945798	9875,972	58
8126	10.7978412	62782,868	57	3	10126,055	10.0054403	201	9.9945597	9875,514	57
8111	10.7970286	62665,515	56	4	10126,524	10.0054604	201	9.9945396	9875,057	56
8097	10.7962175	62548,588	55	5	10126,995	10.0054806	202	9.9945194	9874,598	55
8082	10.7954078	62432,086	54	6	10127,466	10.0055008	202	9.9944992	9874,138	54
8068	10.7945996	62316,007	53	7	10127,939	10.0055211	203	9.9944789	9873,678	53
8054	10.7937928	62200,347	52	8	10128,412	10.0055413	202	9.9944587	9873,216	52
8039	10.7929874	62085,106	51	9	10128,886	10.0055617	204	9.9944383	9872,754	51
8026	10.7921835	61970,275	50	10	10129,361	10.0055820	203	9.9944180	9872,291	50
8012	10.7913809	61855,867	49	11	10129,837	10.0056025	205	9.9943975	9871,827	49
7997	10.7905797	61741,865	48	12	10130,314	10.0056229	204	9.9943771	9871,363	48
7982	10.7897800	61628,272	47	13	10130,791	10.0056433	205	9.9943566	9870,897	47
7969	10.7889816	61515,085	46	14	10131,270	10.0056638	205	9.9943361	9870,431	46
7956	10.7881847	61402,303	45	15	10131,750	10.0056844	206	9.9943156	9869,964	45
7942	10.7873891	61289,923	44	16	10132,230	10.0057050	207	9.9942950	9869,496	44
7929	10.7865949	61177,943	43	17	10132,711	10.0057257	206	9.9942745	9869,027	43
7914	10.7858020	61066,360	42	18	10133,194	10.0057463	206	9.9942537	9868,557	42
7901	10.7850106	60955,174	41	19	10133,677	10.0057670	207	9.9942330	9868,087	41
7888	10.7842205	60844,381	40	20	10134,161	10.0057878	208	9.9942122	9867,615	40
7873	10.7834317	60733,979	39	21	10134,646	10.0058086	208	9.9941914	9867,143	39
7861	10.7826444	60623,967	38	22	10135,132	10.0058294	208	9.9941706	9866,670	38
7847	10.7818583	60514,343	37	23	10135,618	10.0058502	209	9.9941498	9866,196	37
7833	10.7810736	60405,103	36	24	10136,106	10.0058711	209	9.9941289	9865,722	36
7820	10.7802903	60296,247	35	25	10136,595	10.0058921	210	9.9941079	9865,246	35
7807	10.7795083	60187,772	34	26	10137,084	10.0059130	211	9.9940870	9864,770	34
7794	10.7787276	60079,676	33	27	10137,574	10.0059341	210	9.9940659	9864,293	33
7780	10.7779482	59971,957	32	28	10138,066	10.0059551	211	9.9940449	9863,815	32
7767	10.7771702	59864,614	31	29	10138,558	10.0059762	211	9.9940238	9863,336	31
7754	10.7763935	59757,644	30	30	10139,051	10.0059973	211	9.9940027	9862,856	30
7742	10.7756181	59651,045	29	31	10139,545	10.0060185	212	9.9939815	9862,375	29
7728	10.7748439	59544,815	28	32	10140,040	10.0060397	212	9.9939603	9861,894	28
7715	10.7740711	59438,952	27	33	10140,536	10.0060609	213	9.9939391	9861,412	27
7702	10.7732996	59333,455	26	34	10141,032	10.0060822	213	9.9939178	9860,929	26
7689	10.7725294	59228,322	25	35	10141,530	10.0061035	213	9.9938965	9860,445	25
7676	10.7717605	59123,550	24	36	10142,029	10.0061248	214	9.9938752	9859,960	24
7664	10.7709929	59019,138	23	37	10142,528	10.0061462	214	9.9938538	9859,475	23
7651	10.7702265	58915,084	22	38	10143,028	10.0061676	215	9.9938324	9858,988	22
7638	10.7694614	58811,386	21	39	10143,530	10.0061891	215	9.9938109	9858,501	21
7626	10.7686970	58708,042	20	40	10144,032	10.0062106	215	9.9937894	9858,013	20
7612	10.7679350	58605,051	19	41	10144,535	10.0062321	216	9.9937679	9857,524	19
7601	10.7671738	58502,410	18	42	10145,039	10.0062537	216	9.9937463	9857,035	18
7588	10.7664137	58400,117	17	43	10145,544	10.0062753	217	9.9937247	9856,544	17
7575	10.7656549	58298,172	16	44	10146,050	10.0062970	217	9.9937030	9856,053	16
7563	10.7648974	58196,578	15	45	10146,556	10.0063187	217	9.9936813	9855,561	15
7550	10.7641411	58095,318	14	46	10147,064	10.0063404	218	9.9936596	9855,068	14
7539	10.7633861	57994,400	13	47	10147,572	10.0063622	218	9.9936378	9854,574	13
7525	10.7626322	57893,825	12	48	10148,082	10.0063840	218	9.9936160	9854,079	12
7514	10.7618797	57793,588	11	49	10148,592	10.0064058	219	9.9935942	9853,583	11
7501	10.7611283	57693,688	10	50	10149,103	10.0064277	219	9.9935723	9853,087	10
7490	10.7603782	57594,122	9	51	10149,616	10.0064496	219	9.9935504	9852,590	9
7477	10.7596292	57494,889	8	52	10150,129	10.0064715	220	9.9935285	9852,092	8
7465	10.7588815	57395,988	7	53	10150,643	10.0064935	221	9.9935065	9851,593	7
7453	10.7581350	57297,416	6	54	10151,158	10.0065156	220	9.9934844	9851,093	6
7440	10.7573897	57199,173	5	55	10151,673	10.0065376	221	9.9934624	9850,593	5
7429	10.7566457	57101,256	4	56	10152,190	10.0065597	222	9.9934403	9850,091	4
7417	10.7559028	57003,663	3	57	10152,708	10.0065819	222	9.9934181	9849,589	3
7405	10.7551611	56906,394	2	58	10153,226	10.0066041	222	9.9933959	9849,084	2
7394	10.7544206	56809,446	1	59	10153,746	10.0066263	222	9.9933737	9848,582	1
7382	10.7536812	56712,818	0	60	10154,266	10.0066485		9.9933515	9848,078	0
Diff	L Tang.	N. Tan.	M		Co-secants		D	L. Sine	N. Sine	M

80 Degrees

# 10 Degrees

M. N. Sine	L. Sine	Diff	Co-secants		M. N. Tan	L. Tan.	Diff
0 1736,482	9.2396702		10.7603298	57587,705	0 1763,270	9.2463188	
1 1739,346	9.2403861	7159	10.7596139	57492,861	1 1766,269	9.2470356	7381
2 1742,211	9.2411007	7146	10.7588993	57398,333	2 1769,269	9.2477935	7370
3 1745,075	9.2418141	7134	10.7581859	57304,121	3 1772,269	9.2485297	7358
4 1747,939	9.2425264	7123	10.7574736	57210,223	4 1775,270	9.2492643	7346
5 1750,803	9.2432374	7110	10.7567626	57116,636	5 1778,270	9.2499978	7335
6 1753,667	9.2439472	7098	10.7560528	57023,360	6 1781,271	9.2507301	7323
7 1756,531	9.2446558	7086	10.7553442	56930,393	7 1784,273	9.2514612	7311
8 1759,395	9.2453632	7074	10.7546368	56837,734	8 1787,274	9.2521912	7300
9 1762,258	9.2460695	7063	10.7539305	56745,380	9 1790,276	9.2529200	7288
10 1765,121	9.2467746	7051	10.7532254	56653,331	10 1793,279	9.2536477	7277
11 1767,984	9.2474784	7038	10.7525216	56561,584	11 1796,281	9.2543743	7266
12 1770,847	9.2481811	7027	10.7518189	56470,140	12 1799,284	9.2550997	7254
13 1773,710	9.2488827	7016	10.7511173	56378,995	13 1802,287	9.2558240	7243
14 1776,573	9.2495830	7003	10.7504170	56288,148	14 1805,291	9.2565472	7232
15 1779,435	9.2502822	6992	10.7497178	56197,599	15 1808,295	9.2572692	7220
16 1782,298	9.2509803	6981	10.7490197	56107,345	16 1811,299	9.2579901	7209
17 1785,160	9.2516772	6969	10.7483228	56017,386	17 1814,303	9.2587099	7198
18 1788,022	9.2523729	6957	10.7476271	55927,719	18 1817,308	9.2594285	7186
19 1790,884	9.2530675	6946	10.7469325	55838,343	19 1820,313	9.2601461	7176
20 1793,747	9.2537609	6934	10.7462391	55749,258	20 1823,319	9.2608625	7164
21 1796,609	9.2544532	6923	10.7455468	55660,460	21 1826,324	9.2615779	7154
22 1799,469	9.2551444	6912	10.7448556	55571,951	22 1829,330	9.2622921	7142
23 1802,330	9.2558344	6900	10.7441656	55483,726	23 1832,337	9.2630053	7132
24 1805,191	9.2565233	6889	10.7434767	55395,786	24 1835,343	9.2637173	7120
25 1808,052	9.2572110	6877	10.7427890	55308,129	25 1838,350	9.2644283	7110
26 1810,913	9.2578977	6867	10.7421023	55220,754	26 1841,358	9.2651382	7099
27 1813,774	9.2585832	6855	10.7414168	55133,659	27 1844,365	9.2658470	7088
28 1816,635	9.2592676	6844	10.7407324	55046,843	28 1847,373	9.2665547	7077
29 1819,495	9.2599509	6833	10.7400491	54960,305	29 1850,382	9.2672613	7066
30 1822,355	9.2606330	6821	10.7393670	54874,043	30 1853,390	9.2679669	7056
31 1825,215	9.2613141	6811	10.7386859	54788,056	31 1856,399	9.2686714	7045
32 1828,075	9.2619941	6800	10.7380059	54702,342	32 1859,409	9.2693749	7035
33 1830,935	9.2626729	6788	10.7373271	54616,901	33 1862,418	9.2700772	7023
34 1833,795	9.2633507	6778	10.7366493	54531,731	34 1865,428	9.2707786	7014
35 1836,654	9.2640274	6767	10.7359726	54446,831	35 1868,438	9.2714788	7002
36 1839,514	9.2647030	6756	10.7352970	54362,199	36 1871,449	9.2721780	6992
37 1842,373	9.2653775	6745	10.7346225	54277,835	37 1874,460	9.2728762	6982
38 1845,232	9.2660509	6734	10.7339491	54193,737	38 1877,471	9.2735733	6971
39 1848,091	9.2667232	6723	10.7332768	54109,903	39 1880,483	9.2742694	6961
40 1850,949	9.2673945	6713	10.7326055	54026,333	40 1883,495	9.2749644	6950
41 1853,808	9.2680647	6702	10.7319353	53943,020	41 1886,507	9.2756584	6940
42 1856,666	9.2687338	6691	10.7312662	53859,979	42 1889,520	9.2763514	6930
43 1859,524	9.2694019	6681	10.7305981	53777,192	43 1892,533	9.2770434	6922
44 1862,382	9.2700689	6670	10.7299311	53694,664	44 1895,546	9.2777343	6909
45 1865,240	9.2707348	6659	10.7292652	53612,393	45 1898,559	9.2784242	6899
46 1868,098	9.2713997	6649	10.7286003	53530,379	46 1901,573	9.2791131	6889
47 1870,956	9.2720635	6638	10.7279365	53448,620	47 1904,587	9.2798009	6878
48 1873,813	9.2727263	6628	10.7272737	53367,114	48 1907,602	9.2804878	6869
49 1876,670	9.2733880	6617	10.7266120	53285,861	49 1910,617	9.2811736	6858
50 1879,528	9.2740487	6607	10.7259513	53204,860	50 1913,632	9.2818585	6849
51 1882,385	9.2747083	6596	10.7252917	53124,109	51 1916,648	9.2825423	6839
52 1885,241	9.2753669	6586	10.7246331	53043,608	52 1919,664	9.2832251	6828
53 1888,098	9.2760245	6576	10.7239755	52963,354	53 1922,680	9.2839070	6819
54 1890,954	9.2766811	6566	10.7233189	52883,347	54 1925,696	9.2845878	6808
55 1893,811	9.2773366	6555	10.7226634	52803,587	55 1928,713	9.2852677	6799
56 1896,667	9.2779911	6545	10.7220089	52724,070	56 1931,731	9.2859466	6789
57 1899,523	9.2786445	6534	10.7213555	52644,798	57 1934,748	9.2866245	6779
58 1902,379	9.2792970	6525	10.7207030	52565,768	58 1937,766	9.2873014	6769
59 1905,234	9.2799484	6514	10.7200516	52486,979	59 1940,784	9.2879773	6759
60 1908,090	9.2805988	6504	10.7194012	52408,431	60 1943,803	9.2886523	6750
Co-fines		Diff	L. Sec.	N. Sec. M	Co-tangents		Diff

# 79 Degrees

# 10 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
	10.7536812	56712.818	6c		10154.266	10.0066485	223	9.9933515	9848.078	6c
7381	10.7529431	56616.509	59	1	10154.787	10.0066708	224	9.9933292	9847.572	59
7370	10.7522061	56520.516	58	2	10155.310	10.0066932	225	9.9933068	9847.066	58
7358	10.7514703	56424.838	57	3	10155.833	10.0067155	226	9.9932845	9846.558	57
7346	10.7507357	56329.474	56	4	10156.357	10.0067379	227	9.9932621	9846.050	56
7335	10.7500021	56234.421	55	5	10156.882	10.0067604	228	9.9932396	9845.542	55
7323	10.7492699	56139.680	54	6	10157.408	10.0067829	229	9.9932171	9845.032	54
7311	10.7485388	56045.247	53	7	10157.934	10.0068054	230	9.9931946	9844.521	53
7300	10.7478088	55951.121	52	8	10158.462	10.0068280	231	9.9931720	9844.010	52
7288	10.7470800	55857.302	51	9	10158.991	10.0068506	232	9.9931494	9843.498	51
7277	10.7463523	55763.786	50	10	10159.520	10.0068732	233	9.9931268	9842.985	50
7266	10.7456257	55670.574	49	11	10160.050	10.0068959	234	9.9931041	9842.471	49
7254	10.7449003	55577.663	48	12	10160.582	10.0069186	235	9.9930814	9841.956	48
7243	10.7441760	55485.052	47	13	10161.114	10.0069413	236	9.9930587	9841.441	47
7232	10.7434528	55392.740	46	14	10161.647	10.0069641	237	9.9930359	9840.924	46
7220	10.7427309	55300.724	45	15	10162.181	10.0069869	238	9.9930131	9840.407	45
7209	10.7420099	55209.005	44	16	10162.716	10.0070098	239	9.9929902	9839.889	44
7198	10.7412901	55117.579	43	17	10163.252	10.0070327	240	9.9929673	9839.370	43
7186	10.7405715	55026.446	42	18	10163.789	10.0070556	241	9.9929444	9838.850	42
7176	10.7398539	54935.604	41	19	10164.327	10.0070786	242	9.9929214	9838.330	41
7164	10.7391375	54845.051	40	20	10164.865	10.0071016	243	9.9928984	9837.808	40
7154	10.7384221	54754.788	39	21	10165.405	10.0071247	244	9.9928753	9837.286	39
7142	10.7377079	54664.812	38	22	10165.946	10.0071478	245	9.9928522	9836.763	38
7132	10.7369947	54575.121	37	23	10166.487	10.0071709	246	9.9928291	9836.239	37
7120	10.7362827	54485.715	36	24	10167.029	10.0071941	247	9.9928059	9835.715	36
7110	10.7355717	54396.592	35	25	10167.573	10.0072173	248	9.9927827	9835.189	35
7099	10.7348618	54307.750	34	26	10168.117	10.0072405	249	9.9927595	9834.663	34
7088	10.7341530	54219.188	33	27	10168.662	10.0072638	250	9.9927362	9834.130	33
7077	10.7334453	54130.906	32	28	10169.208	10.0072871	251	9.9927129	9833.608	32
7066	10.7327387	54042.901	31	29	10169.755	10.0073105	252	9.9926895	9833.079	31
7056	10.7320331	53955.172	30	30	10170.303	10.0073339	253	9.9926661	9832.549	30
7045	10.7313286	53867.718	29	31	10170.851	10.0073573	254	9.9926427	9832.019	29
7035	10.7306251	53780.538	28	32	10171.401	10.0073808	255	9.9926192	9831.487	28
7023	10.7299228	53693.630	27	33	10171.952	10.0074043	256	9.9925957	9830.955	27
7014	10.7292214	53606.993	26	34	10172.503	10.0074278	257	9.9925722	9830.422	26
7002	10.7285212	53520.626	25	35	10173.056	10.0074514	258	9.9925486	9829.888	25
6992	10.7278220	53434.527	24	36	10173.609	10.0074750	259	9.9925250	9829.353	24
6982	10.7271238	53348.696	23	37	10174.163	10.0074987	260	9.9925013	9828.818	23
6971	10.7264267	53263.131	22	38	10174.719	10.0075224	261	9.9924776	9828.282	22
6961	10.7257306	53177.830	21	39	10175.275	10.0075461	262	9.9924539	9827.744	21
6950	10.7250356	53092.793	20	40	10175.832	10.0075699	263	9.9924301	9827.206	20
6940	10.7243416	53008.018	19	41	10176.390	10.0075937	264	9.9924063	9826.668	19
6930	10.7236486	52923.505	18	42	10176.949	10.0076176	265	9.9923824	9826.128	18
6920	10.7229566	52839.251	17	43	10177.509	10.0076415	266	9.9923585	9825.587	17
6909	10.7222657	52755.255	16	44	10178.069	10.0076654	267	9.9923346	9825.046	16
6899	10.7215758	52671.517	15	45	10178.631	10.0076894	268	9.9923106	9824.504	15
6889	10.7208869	52588.035	14	46	10179.194	10.0077134	269	9.9922866	9823.961	14
6878	10.7201991	52504.809	13	47	10179.757	10.0077374	270	9.9922626	9823.417	13
6869	10.7195122	52421.836	12	48	10180.321	10.0077615	271	9.9922385	9822.873	12
6858	10.7188264	52339.116	11	49	10180.887	10.0077856	272	9.9922144	9822.327	11
6849	10.7181415	52256.647	10	50	10181.453	10.0078098	273	9.9921902	9821.781	10
6838	10.7174577	52174.428	9	51	10182.020	10.0078340	274	9.9921660	9821.234	9
6828	10.7167749	52092.459	8	52	10182.588	10.0078582	275	9.9921418	9820.686	8
6819	10.7160930	52010.738	7	53	10183.158	10.0078825	276	9.9921175	9820.137	7
6808	10.7154122	51929.264	6	54	10183.728	10.0079068	277	9.9920932	9819.587	6
6799	10.7147323	51848.035	5	55	10184.298	10.0079311	278	9.9920689	9819.037	5
6789	10.7140534	51767.051	4	56	10184.870	10.0079555	279	9.9920445	9818.485	4
6779	10.7133755	51686.311	3	57	10185.443	10.0079799	280	9.9920201	9817.933	3
6769	10.7126986	51605.813	2	58	10186.017	10.0080044	281	9.9919956	9817.380	2
6759	10.7120227	51525.557	1	59	10186.591	10.0080289	282	9.9919711	9816.826	1
6750	10.7113477	51445.540	0	60	10187.167	10.0080534	283	9.9919466	9816.272	0
Diff	L. Tang	N. Tan.	M	Co-Secants			D	L. Sine	N. Sine	M

# 1.1 Degrees

M	N. Sine	L. Sine	Diff	Co-secants		M	N. Tan.	L. Tan.	Diff
0	1908,090	9.2805988		10.7194012	52408,431	60	1943,803	9.2886523	6740
1	1910,945	9.2812483	6495	10.7187517	52330,121	59	1946,822	9.2893263	6730
2	1913,801	9.2818967	6484	10.7181033	52252,050	58	1949,841	9.2899993	6720
3	1916,656	9.2825441	6474	10.7174559	52174,216	57	1952,861	9.2906713	6710
4	1919,510	9.2831905	6464	10.7168095	52096,618	56	1955,881	9.2913424	6700
5	1922,365	9.2838359	6454	10.7161641	52019,254	55	1958,901	9.2920126	6690
6	1925,220	9.2844803	6444	10.7155197	51942,125	54	1961,922	9.2926817	6680
7	1928,074	9.2851237	6434	10.7148763	51865,228	53	1964,943	9.2933500	6670
8	1930,928	9.2857661	6424	10.7142339	51788,563	52	1967,964	9.2940172	6660
9	1933,782	9.2864076	6415	10.7135924	51712,128	51	1970,986	9.2946836	6650
10	1936,636	9.2870480	6404	10.7129520	51635,924	50	1973,008	9.2953489	6640
11	1939,490	9.2876875	6395	10.7123125	51559,948	49	1976,031	9.2960134	6630
12	1942,344	9.2883260	6385	10.7116740	51484,199	48	1978,053	9.2966769	6620
13	1945,197	9.2889636	6376	10.7110364	51408,677	47	1981,076	9.2973395	6610
14	1948,050	9.2896001	6365	10.7103999	51333,381	46	1984,100	9.2980011	6600
15	1950,903	9.2902357	6356	10.7097643	51258,309	45	1987,124	9.2986618	6590
16	1953,756	9.2908704	6347	10.7091296	51183,461	44	1990,148	9.2993216	6580
17	1956,609	9.2915040	6336	10.7084960	51108,835	43	1993,172	9.2999804	6570
18	1959,461	9.2921367	6327	10.7078633	51034,431	42	1996,197	9.3006383	6560
19	1962,314	9.2927685	6318	10.7072315	50960,248	41	1999,222	9.3012954	6550
20	1965,166	9.2933993	6308	10.7066007	50886,284	40	2002,248	9.3019514	6540
21	1968,018	9.2940291	6298	10.7059709	50812,539	39	2005,274	9.3026066	6530
22	1970,870	9.2946580	6289	10.7053420	50739,012	38	2008,300	9.3032609	6520
23	1973,722	9.2952859	6279	10.7047141	50665,701	37	2011,327	9.3039143	6510
24	1976,573	9.2959129	6270	10.7040871	50592,606	36	2014,354	9.3045667	6500
25	1979,425	9.2965390	6261	10.7034610	50519,726	35	2017,381	9.3052183	6490
26	1982,276	9.2971641	6251	10.7028359	50447,060	34	2020,409	9.3058689	6480
27	1985,127	9.2977883	6242	10.7022117	50374,607	33	2023,437	9.3065187	6470
28	1987,978	9.2984116	6233	10.7015884	50302,367	32	2026,465	9.3071675	6460
29	1990,829	9.2990339	6223	10.7009661	50230,337	31	2029,494	9.3078155	6450
30	1993,679	9.2996555	6214	10.7003447	50158,517	30	2032,523	9.3084626	6440
31	1996,530	9.3002758	6205	10.6997242	50086,907	29	2035,552	9.3091088	6430
32	1999,380	9.3008953	6195	10.6991047	50015,505	28	2038,582	9.3097541	6420
33	2002,230	9.3015140	6187	10.6984860	49944,311	27	2041,612	9.3103985	6410
34	2005,080	9.3021317	6177	10.6978683	49873,323	26	2044,643	9.3110421	6400
35	2007,930	9.3027485	6168	10.6972515	49802,541	25	2047,674	9.3116848	6390
36	2010,779	9.3033644	6159	10.6966356	49731,964	24	2050,705	9.3123266	6380
37	2013,629	9.3039794	6150	10.6960206	49661,591	23	2053,737	9.3129676	6370
38	2016,478	9.3045934	6140	10.6954066	49591,421	22	2056,769	9.3136075	6360
39	2019,327	9.3052066	6132	10.6947934	49521,453	21	2059,801	9.3142468	6350
40	2022,176	9.3058189	6123	10.6941811	49451,687	20	2062,834	9.3148851	6340
41	2025,024	9.3064303	6114	10.6935697	49382,120	19	2065,867	9.3155226	6330
42	2027,873	9.3070407	6104	10.6929593	49312,754	18	2068,900	9.3161592	6320
43	2030,721	9.3076503	6096	10.6923497	49243,586	17	2071,934	9.3167950	6310
44	2033,569	9.3082590	6087	10.6917410	49174,616	16	2074,968	9.3174299	6300
45	2036,418	9.3088668	6078	10.6911332	49105,844	15	2078,003	9.3180640	6290
46	2039,265	9.3094737	6069	10.6905263	49037,267	14	2081,038	9.3186972	6280
47	2042,113	9.3100798	6061	10.6899202	48968,886	13	2084,073	9.3193295	6270
48	2044,961	9.3106849	6051	10.6893151	48900,700	12	2087,109	9.3199611	6260
49	2047,808	9.3112892	6043	10.6887108	48832,707	11	2090,145	9.3205918	6250
50	2050,655	9.3118926	6034	10.6881074	48764,907	10	2093,181	9.3212216	6240
51	2053,502	9.3124951	6025	10.6875049	48697,299	9	2096,218	9.3218506	6230
52	2056,349	9.3130968	6017	10.6869032	48630,883	8	2099,255	9.3224788	6220
53	2059,195	9.3136976	6008	10.6863024	48562,657	7	2102,293	9.3231061	6210
54	2062,042	9.3142975	5999	10.6857025	48495,621	6	2105,331	9.3237327	6200
55	2064,888	9.3148965	5990	10.6851035	48428,774	5	2108,369	9.3243584	6190
56	2067,734	9.3154947	5982	10.6845053	48362,114	4	2111,407	9.3249832	6180
57	2070,580	9.3160921	5974	10.6839079	48295,643	3	2114,446	9.3256073	6170
58	2073,426	9.3166888	5964	10.6833115	48229,357	2	2117,486	9.3262305	6160
59	2076,272	9.3172841	5956	10.6827159	48163,258	1	2120,525	9.3268529	6150
60	2079,117	9.3178789	5948	10.6821211	48097,343	0	2123,566	9.3274745	6140
Co-fines				Diff	L. Sec.	N. Sec.	M	Co-tangents	

# 11 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
	10.713477	51455540	60					9.9919466	9816,272	60
6740	10.7106737	51365,763	59	1	10187,167	10.0080534	246	9.9919220	9815,716	59
6730	10.7100007	51286,224	58	2	10188,321	10.0081026	246	9.9918974	9815,160	58
6720	10.7093287	51206,921	57	3	10188,899	10.0081273	247	9.9918727	9814,603	57
6711	10.7086576	51127,855	56	4	10189,478	10.0081520	247	9.9918480	9814,045	56
6702	10.7079874	51049,024	55	5	10190,059	10.0081767	247	9.9918233	9813,486	55
6691	10.7073183	50970,420	54	6	10190,640	10.0082014	247	9.9917986	9812,927	54
6683	10.7066500	50892,061	53	7	10191,222	10.0082263	249	9.9917737	9812,366	53
6672	10.7059828	50813,928	52	8	10191,805	10.0082511	248	9.9917489	9811,805	52
6664	10.7053164	50736,025	51	9	10192,389	10.0082760	249	9.9917240	9811,243	51
6653	10.7046511	50658,352	50	10	10192,973	10.0083009	250	9.9916991	9810,680	50
6645	10.7039866	50580,907	49	11	10193,559	10.0083259	250	9.9916741	9810,116	49
6635	10.7033231	50503,690	48	12	10194,146	10.0083508	249	9.9916492	9809,552	48
6626	10.7026605	50426,700	47	13	10194,734	10.0083758	251	9.9916241	9808,980	47
6616	10.7019989	50349,935	46	14	10195,322	10.0084010	251	9.9915990	9808,420	46
6607	10.7013382	50273,395	45	15	10195,912	10.0084261	251	9.9915739	9807,853	45
6598	10.7006784	50197,078	44	16	10196,502	10.0084512	252	9.9915488	9807,285	44
6588	10.7000196	50120,984	43	17	10197,093	10.0084764	252	9.9915236	9806,716	43
6579	10.6993617	50045,111	42	18	10197,686	10.0085016	252	9.9914984	9806,147	42
6571	10.6987040	49969,459	41	19	10198,279	10.0085269	253	9.9914731	9805,576	41
6560	10.6980486	49894,027	40	20	10198,873	10.0085522	253	9.9914478	9805,005	40
6552	10.6973934	49818,813	39	21	10199,468	10.0085775	253	9.9914225	9804,433	39
6543	10.6967391	49743,817	38	22	10200,064	10.0086029	254	9.9913971	9803,860	38
6534	10.6960857	49669,037	37	23	10200,661	10.0086283	254	9.9913717	9803,286	37
6524	10.6954333	49594,474	36	24	10201,259	10.0086538	255	9.9913462	9802,712	36
6516	10.6947817	49520,125	35	25	10201,858	10.0086793	255	9.9913207	9802,136	35
6506	10.6941311	49445,990	34	26	10202,457	10.0087048	255	9.9912952	9801,560	34
6498	10.6934813	49372,068	33	27	10203,058	10.0087304	256	9.9912696	9800,983	33
6488	10.6928325	49298,358	32	28	10203,660	10.0087560	256	9.9912440	9800,405	32
6480	10.6921845	49224,859	31	29	10204,262	10.0087816	257	9.9912184	9799,827	31
6471	10.6915374	49151,570	30	30	10204,866	10.0088073	257	9.9911927	9799,247	30
6462	10.6908912	49078,491	29	31	10205,470	10.0088330	257	9.9911670	9798,667	29
6453	10.6902459	49005,620	28	32	10206,075	10.0088588	258	9.9911412	9798,088	28
6444	10.6896015	48932,956	27	33	10206,682	10.0088846	258	9.9911154	9797,504	27
6436	10.6889579	48860,499	26	34	10207,289	10.0089104	259	9.9910896	9796,921	26
6427	10.6883152	48788,248	25	35	10207,897	10.0089363	259	9.9910637	9796,337	25
6418	10.6876734	48716,201	24	36	10208,506	10.0089622	259	9.9910378	9795,752	24
6409	10.6870325	48644,359	23	37	10209,116	10.0089881	259	9.9910119	9795,167	23
6401	10.6863924	48572,719	22	38	10209,727	10.0090141	260	9.9909859	9794,581	22
6392	10.6857532	48501,282	21	39	10210,339	10.0090402	260	9.9909598	9793,994	21
6383	10.6851149	48430,045	20	40	10210,952	10.0090662	261	9.9909338	9793,400	20
6375	10.6844774	48359,010	19	41	10211,566	10.0090923	262	9.9909077	9792,818	19
6366	10.6838408	48288,174	18	42	10212,180	10.0091185	262	9.9908815	9792,228	18
6358	10.6832050	48217,536	17	43	10212,796	10.0091447	262	9.9908553	9791,638	17
6349	10.6825701	48147,096	16	44	10213,413	10.0091709	262	9.9908291	9791,047	16
6341	10.6819360	48076,854	15	45	10214,030	10.0091971	263	9.9908029	9790,455	15
6332	10.6813028	48006,808	14	46	10214,649	10.0092234	264	9.9907766	9789,862	14
6323	10.6806705	47936,957	13	47	10215,268	10.0092498	264	9.9907502	9789,268	13
6316	10.6800389	47867,300	12	48	10215,888	10.0092761	265	9.9907239	9788,674	12
6307	10.6794082	47797,837	11	49	10216,510	10.0093026	264	9.9906974	9788,079	11
6298	10.6787784	47728,568	10	50	10217,132	10.0093290	265	9.9906710	9787,483	10
6290	10.6781494	47659,490	9	51	10217,755	10.0093555	265	9.9906445	9786,886	9
6282	10.6775212	47590,603	8	52	10218,379	10.0093820	266	9.9906180	9786,288	8
6273	10.6768939	47521,907	7	53	10219,004	10.0094086	266	9.9905914	9785,686	7
6266	10.6762673	47453,401	6	54	10219,630	10.0094352	266	9.9905648	9785,090	6
6257	10.6756416	47385,083	5	55	10220,257	10.0094618	267	9.9905382	9784,490	5
6248	10.6750168	47316,954	4	56	10220,885	10.0094885	267	9.9905115	9783,889	4
6241	10.6743927	47249,012	3	57	10221,514	10.0095152	268	9.9904848	9783,287	3
6232	10.6737695	47181,256	2	58	10222,144	10.0095420	268	9.9904580	9782,684	2
6224	10.6731471	47113,686	1	59	10222,774	10.0095688	268	9.9904312	9782,080	1
6216	10.6725255	47046,301	0	60	10223,406	10.0095956	268	9.9904044	9781,476	0
Diff	L. Tang. N. Tan. M			Co-Secants			D	L. Sine N. Sine		

78 Degrees

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# 12 Degrees

M.N. Sine	L. Sine	Diff	Co-secants		M.N. Tan.	L. Tan.	Diff	
0 2079,117	9.3178739		10.6821211	48097,343	56	0 2125,566	9.3274745	5208
1 2081,962	9.3184728	5939	10.6815272	48031,613	59	1 2128,606	9.3280953	5200
2 2084,807	9.3190659	5931	10.6809341	47966,060	58	2 2131,647	9.3287153	5192
3 2087,652	9.3196581	5922	10.6803419	47900,702	57	3 2134,688	9.3293345	5183
4 2090,497	9.3202495	5914	10.6797505	47835,520	56	4 2137,730	9.3299528	5176
5 2093,341	9.3208400	5905	10.6791600	47770,519	55	5 2140,772	9.3305704	5168
6 2096,186	9.3214297	5897	10.6785703	47705,699	54	6 2143,814	9.3311872	5159
7 2099,030	9.3220186	5889	10.6779814	47641,058	53	7 2146,857	9.3318031	5151
8 2101,874	9.3226066	5880	10.6773934	47576,596	52	8 2149,900	9.3324183	5144
9 2104,718	9.3231938	5872	10.6768062	47512,312	51	9 2152,944	9.3330327	5136
10 2107,561	9.3237802	5864	10.6762198	47448,206	50	10 2155,988	9.3336463	5128
11 2110,405	9.3243657	5855	10.6756343	47384,277	49	11 2159,032	9.3342591	5120
12 2113,248	9.3249505	5848	10.6750495	47320,524	48	12 2162,077	9.3348711	5112
13 2116,091	9.3255344	5839	10.6744656	47256,945	47	13 2165,122	9.3354823	5104
14 2118,934	9.3261174	5830	10.6738826	47193,542	46	14 2168,167	9.3360927	5097
15 2121,777	9.3266997	5823	10.6733003	47130,313	45	15 2171,213	9.3367024	5089
16 2124,619	9.3272811	5814	10.6727189	47067,256	44	16 2174,259	9.3373113	5081
17 2127,462	9.3278617	5806	10.6721383	47004,372	43	17 2177,306	9.3379194	5073
18 2130,304	9.3284416	5799	10.6715584	46941,660	42	18 2180,353	9.3385267	5066
19 2133,146	9.3290206	5790	10.6709794	46879,119	41	19 2183,400	9.3391333	5058
20 2135,988	9.3295988	5782	10.6704012	46816,748	40	20 2186,448	9.3397391	5050
21 2138,829	9.3301761	5773	10.6698239	46754,548	39	21 2189,496	9.3403441	5043
22 2141,671	9.3307527	5766	10.6692473	46692,516	38	22 2192,544	9.3409484	5035
23 2144,512	9.3313285	5758	10.6686715	46630,652	37	23 2195,593	9.3415519	5027
24 2147,353	9.3319035	5750	10.6680965	46568,956	36	24 2198,643	9.3421546	5020
25 2150,194	9.3324777	5742	10.6675223	46507,427	35	25 2201,692	9.3427566	5012
26 2153,035	9.3330511	5734	10.6669489	46446,064	34	26 2204,742	9.3433578	5005
27 2155,876	9.3336237	5726	10.6663763	46384,867	33	27 2207,793	9.3439583	5000
28 2158,716	9.3341955	5718	10.6658045	46323,835	32	28 2210,844	9.3445580	5000
29 2161,556	9.3347665	5710	10.6652335	46262,967	31	29 2213,895	9.3451570	5000
30 2164,396	9.3353368	5703	10.6646632	46202,263	30	30 2216,947	9.3457552	5000
31 2167,236	9.3359062	5694	10.6640938	46141,722	29	31 2219,999	9.3463527	5000
32 2170,076	9.3364749	5687	10.6635251	46081,343	28	32 2223,051	9.3469494	5000
33 2172,915	9.3370428	5679	10.6629572	46021,126	27	33 2226,104	9.3475454	5000
34 2175,754	9.3376099	5671	10.6623901	45961,070	26	34 2229,157	9.3481407	5000
35 2178,593	9.3381762	5663	10.6618238	45901,174	25	35 2232,211	9.3487352	5000
36 2181,432	9.3387418	5656	10.6612582	45841,439	24	36 2235,265	9.3493290	5000
37 2184,271	9.3393065	5647	10.6606935	45781,862	23	37 2238,319	9.3499220	5000
38 2187,110	9.3398706	5641	10.6601294	45722,444	22	38 2241,374	9.3505143	5000
39 2189,948	9.3404338	5632	10.6595662	45663,183	21	39 2244,429	9.3511059	5000
40 2192,786	9.3409963	5625	10.6590037	45604,080	20	40 2247,485	9.3516968	5000
41 2195,624	9.3415580	5617	10.6584420	45545,134	19	41 2250,541	9.3522869	5000
42 2198,462	9.3421190	5610	10.6578810	45486,344	18	42 2253,597	9.3528763	5000
43 2201,300	9.3426792	5602	10.6573208	45427,709	17	43 2256,654	9.3534650	5000
44 2204,137	9.3432386	5594	10.6567614	45369,229	16	44 2259,711	9.3540530	5000
45 2206,974	9.3437973	5587	10.6562027	45310,803	15	45 2262,768	9.3546402	5000
46 2209,811	9.3443552	5579	10.6556448	45252,730	14	46 2265,827	9.3552267	5000
47 2212,648	9.3449124	5572	10.6550876	45194,711	13	47 2268,885	9.3558126	5000
48 2215,485	9.3454688	5564	10.6545312	45136,844	12	48 2271,944	9.3563977	5000
49 2218,321	9.3460245	5557	10.6539755	45079,129	11	49 2275,003	9.3569821	5000
50 2221,158	9.3465794	5549	10.6534206	45021,565	10	50 2278,063	9.3575658	5000
51 2223,994	9.3471336	5542	10.6528664	44964,152	9	51 2281,123	9.3581487	5000
52 2226,830	9.3476870	5534	10.6523130	44906,889	8	52 2284,184	9.3587310	5000
53 2229,666	9.3482397	5527	10.6517603	44849,775	7	53 2287,244	9.3593126	5000
54 2232,501	9.3487917	5520	10.6512083	44792,810	6	54 2290,306	9.3598935	5000
55 2235,337	9.3493429	5512	10.6506571	44735,993	5	55 2293,367	9.3604736	5000
56 2238,172	9.3498934	5505	10.6501066	44679,324	4	56 2296,429	9.3610531	5000
57 2241,007	9.3504432	5498	10.6495568	44622,803	3	57 2299,492	9.3616319	5000
58 2243,842	9.3509922	5490	10.6490078	44566,428	2	58 2302,555	9.3622100	5000
59 2246,676	9.3515405	5483	10.6484595	44510,198	1	59 2305,618	9.3627874	5000
60 2249,511	9.3520880	5475	10.6479120	44454,115	0	60 2308,682	9.3633641	5000
Co-fines		Diff	L. Sec.		N. Sec.	M		
						Co-tangents		

# 12 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
6208	10.6725255	47046,301	66	10223,406	10.0095956	9.9904044	9781,476	66
6200	10.6719047	46979,100	59	10224,039	10.0096225	9.9903775	9780,871	59
6192	10.6712847	46912,083	58	10224,672	10.0096494	9.9903506	9780,265	58
6183	10.6706655	46845,248	57	10225,307	10.0096763	9.9903237	9779,658	57
6176	10.6700472	46778,595	56	10225,942	10.0097033	9.9902967	9779,050	56
6168	10.6694296	46712,124	55	10226,578	10.0097303	9.9902697	9778,442	55
6155	10.6688128	46645,832	54	10227,216	10.0097574	9.9902426	9777,832	54
6152	10.6681969	46579,721	53	10227,854	10.0097845	9.9902155	9777,222	53
6144	10.6675817	46513,788	52	10228,493	10.0098117	9.9901883	9776,611	52
6136	10.6669673	46448,034	51	10229,133	10.0098388	9.9901612	9775,999	51
6128	10.6663537	46382,457	50	10229,774	10.0098661	9.9901339	9775,387	50
6120	10.6657409	46317,056	49	10230,416	10.0098933	9.9901067	9774,773	49
6112	10.6651289	46251,832	48	10231,059	10.0099206	9.9900794	9774,159	48
6104	10.6645177	46186,783	47	10231,703	10.0099479	9.9900521	9773,544	47
6097	10.6639073	46121,908	46	10232,348	10.0099753	9.9900247	9772,928	46
6089	10.6632976	46057,207	45	10232,994	10.0100027	9.9899973	9772,311	45
6081	10.6626887	45992,680	44	10233,641	10.0100302	9.9899698	9771,693	44
6073	10.6620806	45928,325	43	10234,288	10.0100577	9.9899423	9771,075	43
6066	10.6614733	45864,141	42	10234,937	10.0100852	9.9899148	9770,456	42
6058	10.6608667	45800,129	41	10235,587	10.0101127	9.9898873	9769,836	41
6050	10.6602609	45736,287	40	10236,237	10.0101403	9.9898597	9769,215	40
6043	10.6596559	45672,615	39	10236,889	10.0101680	9.9898320	9768,593	39
6035	10.6590516	45609,113	38	10237,541	10.0101957	9.9898043	9767,970	38
6027	10.6584481	45545,776	37	10238,195	10.0102234	9.9897766	9767,347	37
6020	10.6578454	45482,608	36	10238,849	10.0102511	9.9897489	9766,723	36
6012	10.6572434	45419,608	35	10239,504	10.0102789	9.9897211	9766,098	35
6005	10.6566422	45356,773	34	10240,161	10.0103068	9.9896932	9765,472	34
5997	10.6560417	45294,105	33	10240,818	10.0103346	9.9896654	9764,845	33
5990	10.6554420	45231,601	32	10241,476	10.0103626	9.9896374	9764,218	32
5982	10.6548430	45169,261	31	10242,135	10.0103905	9.9896095	9763,589	31
5975	10.6542448	45107,085	30	10242,795	10.0104185	9.9895815	9762,960	30
5967	10.6536473	45045,072	29	10243,456	10.0104465	9.9895535	9762,330	29
5960	10.6530506	44983,221	28	10244,118	10.0104746	9.9895254	9761,699	28
5953	10.6524546	44921,532	27	10244,781	10.0105027	9.9894973	9761,068	27
5945	10.6518593	44860,004	26	10245,445	10.0105308	9.9894692	9760,435	26
5938	10.6512648	44798,636	25	10246,110	10.0105590	9.9894411	9759,802	25
5930	10.6506710	44737,428	24	10246,776	10.0105872	9.9894128	9759,168	24
5923	10.6500780	44676,379	23	10247,442	10.0106155	9.9893845	9758,533	23
5916	10.6494857	44615,489	22	10248,110	10.0106438	9.9893562	9757,897	22
5909	10.6488941	44554,756	21	10248,779	10.0106721	9.9893279	9757,260	21
5901	10.6483032	44494,173	20	10249,448	10.0107005	9.9892995	9756,623	20
5894	10.6477131	44433,762	19	10250,119	10.0107289	9.9892711	9755,985	19
5887	10.6471237	44373,500	18	10250,790	10.0107573	9.9892427	9755,345	18
5880	10.6465350	44313,392	17	10251,463	10.0107858	9.9892142	9754,706	17
5872	10.6459470	44253,439	16	10252,136	10.0108144	9.9891856	9754,065	16
5865	10.6453598	44193,641	15	10252,811	10.0108429	9.9891571	9753,423	15
5859	10.6447733	44133,996	14	10253,486	10.0108715	9.9891285	9752,781	14
5851	10.6441874	44074,504	13	10254,162	10.0109002	9.9890998	9752,138	13
5844	10.6436023	44015,164	12	10254,839	10.0109289	9.9890711	9751,494	12
5837	10.6430179	43955,977	11	10255,518	10.0109570	9.9890424	9750,849	11
5829	10.6424342	43896,940	10	10256,197	10.0109863	9.9890137	9750,203	10
5823	10.6418513	43838,054	9	10256,877	10.0110151	9.9889845	9749,556	9
5816	10.6412690	43779,317	8	10257,558	10.0110440	9.9889556	9748,908	8
5809	10.6406874	43720,731	7	10258,240	10.0110729	9.9889274	9748,261	7
5801	10.6401065	43662,293	6	10258,923	10.0111018	9.9888982	9747,612	6
5795	10.6395264	43604,003	5	10259,607	10.0111307	9.9888693	9746,962	5
5788	10.6389469	43545,861	4	10260,292	10.0111597	9.9888403	9746,311	4
5781	10.6383681	43487,866	3	10260,978	10.0111887	9.9888113	9745,660	3
5774	10.6377900	43430,018	2	10261,665	10.0112178	9.9887822	9745,008	2
5767	10.6372126	43372,316	1	10262,352	10.0112469	9.9887533	9744,355	1
Diff	L Tang	N. Tan.	M	Co-secants		D	L. Sine	N. Sine M

# 13 Degrees

N	N. Sine	L. Sine	Diff	Co-secants		M	N. Tan.	L. Tan.	Diff
C	2249,511	9.352088c		10.647912c	44454,115	60	2308,682	9.3633641	
1	2252,345	9.3526349	5469	10.6473651	44398,176	59	2311,746	9.3639401	5760
2	2255,179	9.3531810	5461	10.6468190	44342,382	58	2314,811	9.3645155	5754
3	2258,013	9.3537264	5454	10.6462736	44286,731	57	2317,876	9.3650901	5746
4	2260,846	9.3542710	5446	10.6457290	44231,224	56	2320,941	9.3656641	5740
5	2263,680	9.3548150	5440	10.6451850	44175,859	55	2324,007	9.3662374	5733
6	2266,513	9.3553582	5432	10.6446418	44120,637	54	2327,073	9.3668100	5726
7	2269,346	9.3559007	5425	10.6440993	44065,556	53	2330,140	9.3673819	5719
8	2272,179	9.3564426	5419	10.6435574	44010,616	52	2333,207	9.3679532	5713
9	2275,012	9.3569836	5410	10.6430164	43955,817	51	2336,274	9.3685238	5706
10	2277,844	9.3575240	5404	10.6424760	43901,158	50	2339,342	9.3690937	5699
11	2280,677	9.3580637	5397	10.6419363	43846,638	49	2342,410	9.3696629	5692
12	2283,509	9.3586027	5390	10.6413973	43792,257	48	2345,479	9.3702315	5686
13	2286,341	9.3591409	5382	10.6408591	43738,015	47	2348,548	9.3707994	5679
14	2289,172	9.3596785	5376	10.6403215	43683,910	46	2351,617	9.3713667	5673
15	2292,004	9.3602154	5369	10.6397846	43629,943	45	2354,687	9.3719333	5666
16	2294,835	9.3607515	5361	10.6392485	43576,113	44	2357,758	9.3724992	5659
17	2297,666	9.3612870	5355	10.6387130	43522,419	43	2360,829	9.3730645	5653
18	2300,497	9.3618217	5347	10.6381783	43468,861	42	2363,900	9.3736291	5646
19	2303,328	9.3623558	5341	10.6376442	43415,438	41	2366,971	9.3741930	5639
20	2306,159	9.3628892	5334	10.6371108	43362,150	40	2370,044	9.3747563	5633
21	2308,989	9.3634219	5327	10.6365781	43308,996	39	2373,116	9.3753190	5627
22	2311,819	9.3639539	5320	10.6360461	43255,977	38	2376,189	9.3758810	5620
23	2314,649	9.3644852	5313	10.6355148	43203,090	37	2379,262	9.3764423	5613
24	2317,479	9.3650158	5306	10.6349842	43150,336	36	2382,336	9.3770030	5607
25	2320,309	9.3655458	5300	10.6344542	43097,715	35	2385,410	9.3775631	5601
26	2323,138	9.3660750	5292	10.6339250	43045,225	34	2388,485	9.3781225	5594
27	2325,967	9.3666036	5286	10.6333964	42992,867	33	2391,560	9.3786813	5588
28	2328,796	9.3671315	5279	10.6328685	42940,640	32	2394,635	9.3792394	5581
29	2331,625	9.3676587	5272	10.6323413	42888,543	31	2397,711	9.3797969	5575
30	2334,454	9.3681853	5266	10.6318147	42836,576	30	2400,788	9.3803537	5568
31	2337,282	9.3687111	5258	10.6312889	42784,738	29	2403,864	9.3809100	5563
32	2340,110	9.3692363	5252	10.6307637	42733,029	28	2406,942	9.3814655	5556
33	2342,938	9.3697608	5245	10.6302392	42681,449	27	2410,019	9.3820205	5550
34	2345,766	9.3702847	5239	10.6297153	42629,996	26	2413,097	9.3825748	5543
35	2348,594	9.3708087	5232	10.6291921	42578,671	25	2416,176	9.3831285	5537
36	2351,421	9.3713304	5225	10.6286696	42527,474	24	2419,255	9.3836816	5531
37	2354,248	9.3718523	5219	10.6281477	42476,402	23	2422,334	9.3842340	5524
38	2357,075	9.3723735	5212	10.6276265	42425,457	22	2425,414	9.3847858	5518
39	2359,902	9.3728940	5205	10.6271060	42374,637	21	2428,494	9.3853370	5512
40	2362,729	9.3734139	5199	10.6265861	42323,943	20	2431,575	9.3858876	5506
41	2365,555	9.3739331	5192	10.6260669	42273,373	19	2434,656	9.3864376	5500
42	2368,381	9.3744517	5186	10.6255483	42222,928	18	2437,737	9.3869869	5493
43	2371,207	9.3749696	5179	10.6250304	42172,606	17	2440,819	9.3875356	5487
44	2374,033	9.3754868	5172	10.6245132	42122,408	16	2443,902	9.3880837	5481
45	2376,859	9.3760034	5166	10.6239966	42072,333	15	2446,984	9.3886312	5475
46	2379,684	9.3765194	5160	10.6234806	42022,380	14	2450,068	9.3891781	5469
47	2382,510	9.3770347	5153	10.6229653	41972,545	13	2453,151	9.3897244	5463
48	2385,335	9.3775493	5146	10.6224507	41922,840	12	2456,236	9.3902700	5456
49	2388,159	9.3780633	5140	10.6219367	41873,252	11	2459,320	9.3908151	5451
50	2390,984	9.3785767	5134	10.6214233	41823,785	10	2462,405	9.3913595	5444
51	2393,808	9.3790894	5127	10.6209106	41774,438	9	2465,491	9.3919030	5439
52	2396,633	9.3796015	5121	10.6203985	41725,210	8	2468,577	9.3924466	5432
53	2399,457	9.3801125	5114	10.6198871	41676,102	7	2471,663	9.3929893	5427
54	2402,280	9.3806237	5108	10.6193763	41627,114	6	2474,750	9.3935313	5421
55	2405,104	9.3811335	5102	10.6188661	41578,243	5	2477,837	9.3940727	5414
56	2407,927	9.3816434	5095	10.6183566	41529,491	4	2480,925	9.3946136	5409
57	2410,751	9.3821523	5089	10.6178477	41480,856	3	2484,013	9.3951538	5402
58	2413,574	9.3826605	5082	10.6173395	41432,339	2	2487,101	9.3956933	5397
59	2416,396	9.3831682	5077	10.6168318	41383,939	1	2490,191	9.3962320	5391
60	2419,219	9.3836752	5070	10.6163248	41335,655	0	2493,280	9.3967711	5385
Co-fines			Diff	L. Sec.	N. Sec.	M	Co-tangents		Diff

# 76 Degrees

# 13 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	D	Co-sines	
5760	10.6366359	43314,759	60	10263,041	10.0112761	292	9.9887239	9743,701
5754	10.6360599	43257,347	59	10263,731	10.0113053	292	9.9886947	9743,046
5746	10.6354845	43200,079	58	10264,421	10.0113345	292	9.9886655	9742,390
5740	10.6349099	43142,955	57	10265,113	10.0113637	292	9.9886363	9741,734
5733	10.6343359	43085,974	56	10265,806	10.0113930	293	9.9886070	9741,077
5726	10.6337626	43029,136	55	10266,499	10.0114224	294	9.9885776	9740,419
5719	10.6331900	42972,440	54	10267,194	10.0114518	294	9.9885482	9739,760
5713	10.6326181	42915,885	53	10267,889	10.0114812	294	9.9885188	9739,100
5706	10.6320468	42859,472	52	10268,586	10.0115106	294	9.9884894	9738,439
5699	10.6314762	42803,199	51	10269,283	10.0115401	295	9.9884599	9737,778
5692	10.6309063	42747,066	50	10269,982	10.0115697	296	9.9884303	9737,116
5686	10.6303371	42691,072	49	10270,681	10.0115992	295	9.9884008	9736,453
5679	10.6297685	42635,218	48	10271,381	10.0116288	296	9.9883712	9735,789
5673	10.6292006	42579,501	47	10272,082	10.0116585	297	9.9883415	9735,124
5666	10.6286333	42523,923	46	10272,785	10.0116882	297	9.9883118	9734,459
5659	10.6280667	42468,482	45	10273,488	10.0117179	297	9.9882821	9733,793
5653	10.6275008	42413,177	44	10274,192	10.0117477	298	9.9882523	9733,125
5646	10.6269355	42358,009	43	10274,897	10.0117775	298	9.9882225	9732,458
5639	10.6263709	42302,977	42	10275,603	10.0118073	298	9.9881927	9731,789
5633	10.6258070	42248,080	41	10276,310	10.0118372	299	9.9881628	9731,119
5627	10.6252437	42193,318	40	10277,018	10.0118671	299	9.9881329	9730,449
5620	10.6246810	42138,690	39	10277,727	10.0118971	300	9.9881029	9729,777
5613	10.6241190	42084,196	38	10278,437	10.0119271	300	9.9880729	9729,103
5607	10.6235577	42029,835	37	10279,148	10.0119571	300	9.9880429	9728,432
5601	10.6229970	41975,606	36	10279,860	10.0119872	301	9.9880128	9727,759
5594	10.6224369	41921,510	35	10280,573	10.0120173	301	9.9879828	9727,084
5588	10.6218775	41867,546	34	10281,287	10.0120475	302	9.9879525	9726,409
5581	10.6213187	41813,713	33	10282,002	10.0120777	302	9.9879223	9725,733
5575	10.6207606	41760,011	32	10282,717	10.0121079	302	9.9878921	9725,056
5568	10.6202031	41706,440	31	10283,434	10.0121382	303	9.9878618	9724,378
5563	10.6196463	41652,998	30	10284,152	10.0121685	303	9.9878315	9723,699
5556	10.6190900	41599,685	29	10284,871	10.0121988	303	9.9878012	9723,020
5550	10.6185345	41546,501	28	10285,590	10.0122292	304	9.9877708	9722,339
5543	10.6179795	41493,446	27	10286,311	10.0122596	304	9.9877404	9721,658
5537	10.6174252	41440,519	26	10287,033	10.0122901	305	9.9877099	9720,976
5531	10.6168715	41387,719	25	10287,755	10.0123206	305	9.9876794	9720,294
5524	10.6163184	41335,046	24	10288,479	10.0123512	306	9.9876488	9719,610
5518	10.6157660	41282,499	23	10289,203	10.0123817	305	9.9876183	9718,926
5512	10.6152142	41230,079	22	10289,929	10.0124124	307	9.9875876	9718,240
5506	10.6146630	41177,784	21	10290,655	10.0124430	306	9.9875570	9717,554
5500	10.6141124	41125,614	20	10291,383	10.0124737	307	9.9875263	9716,867
5493	10.6135624	41073,569	19	10292,111	10.0125045	308	9.9874955	9716,180
5487	10.6130131	41021,649	18	10292,840	10.0125352	307	9.9874648	9715,491
5481	10.6124644	40969,852	17	10293,571	10.0125661	309	9.9874339	9714,802
5475	10.6119163	40918,178	16	10294,302	10.0125969	308	9.9874031	9714,112
5469	10.6113688	40866,627	15	10295,034	10.0126278	309	9.9873722	9713,421
5463	10.6108219	40815,199	14	10295,768	10.0126587	309	9.9873413	9712,728
5456	10.6102756	40763,892	13	10296,502	10.0126897	310	9.9873103	9712,036
5451	10.6097300	40712,707	12	10297,237	10.0127207	310	9.9872793	9711,343
5444	10.6091849	40661,643	11	10297,973	10.0127518	311	9.9872482	9710,649
5439	10.6086405	40610,700	10	10298,711	10.0127829	311	9.9872171	9709,953
5432	10.6080966	40559,877	9	10299,449	10.0128140	311	9.9871860	9709,258
5427	10.6075534	40509,174	8	10300,188	10.0128451	311	9.9871549	9708,561
5420	10.6070107	40458,590	7	10300,928	10.0128764	313	9.9871236	9707,863
5414	10.6064687	40408,125	6	10301,669	10.0129076	312	9.9870924	9707,165
5409	10.6059273	40357,779	5	10302,411	10.0129389	313	9.9870611	9706,466
5402	10.6053864	40307,550	4	10303,154	10.0129702	313	9.9870298	9705,768
5397	10.6048462	40257,440	3	10303,898	10.0130016	314	9.9869984	9705,068
5391	10.6043065	40207,446	2	10304,643	10.0130330	314	9.9869670	9704,363
5385	10.6037674	40157,570	1	10305,388	10.0130644	314	9.9869356	9703,661
5380	10.6032289	40107,809	0	10306,136	10.0130959	315	9.9869041	9702,957
Diff	L. Tang. N. Tan. M			Co-secants		D	L. Sine N. Sine M	

# 76 Degrees

# 14 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants			M. N. Tan.	L. Tan.	Diff.
0 2419,219	9.3836752	5063	10.6163248	41335,655	60	0 2493,280	9.3967711	5378
1 2422,041	9.3841815	5058	10.6153185	41287,487	59	1 2496,370	9.3973089	5374
2 2424,863	9.3846873	5051	10.6153127	41239,435	58	2 2499,460	9.3978463	5370
3 2427,685	9.3851924	5045	10.6148076	41191,498	57	3 2502,551	9.3983830	5367
4 2430,507	9.3856969	5039	10.6143031	41143,675	56	4 2505,642	9.3989191	5361
5 2433,329	9.3862008	5032	10.6137992	41095,967	55	5 2508,734	9.3994547	5356
6 2436,150	9.3867040	5027	10.6132960	41048,374	54	6 2511,826	9.3999896	5349
7 2438,971	9.3872067	5020	10.6127933	41000,893	53	7 2514,919	9.4005240	5344
8 2441,792	9.3877087	5014	10.6122913	40953,520	52	8 2518,012	9.4010578	5338
9 2444,613	9.3882101	5008	10.6117899	40906,272	51	9 2521,106	9.4015910	5332
10 2447,433	9.3887109	5002	10.6112891	40859,130	50	10 2524,200	9.4021237	5327
11 2450,254	9.3892111	4995	10.6107889	40812,100	49	11 2527,294	9.4026558	5321
12 2453,074	9.3897106	4990	10.6102894	40765,181	48	12 2530,389	9.4031873	5315
13 2455,894	9.3902096	4983	10.6097904	40718,374	47	13 2533,484	9.4037182	5309
14 2458,713	9.3907079	4978	10.6092921	40671,677	46	14 2536,580	9.4042486	5304
15 2461,533	9.3912057	4971	10.6087943	40625,091	45	15 2539,676	9.4047784	5298
16 2464,352	9.3917028	4965	10.6082972	40578,615	44	16 2542,773	9.4053076	5292
17 2467,171	9.3921993	4959	10.6078007	40532,249	43	17 2545,870	9.4058363	5287
18 2469,990	9.3926952	4953	10.6073048	40485,992	42	18 2548,968	9.4063644	5281
19 2472,809	9.3931905	4947	10.6068095	40439,844	41	19 2552,066	9.4068919	5275
20 2475,627	9.3936852	4942	10.6063148	40393,804	40	20 2555,165	9.4074189	5270
21 2478,445	9.3941794	4935	10.6058206	40347,872	39	21 2558,264	9.4079453	5264
22 2481,263	9.3946729	4929	10.6053271	40302,048	38	22 2561,363	9.4084712	5259
23 2484,081	9.3951658	4923	10.6048342	40256,332	37	23 2564,463	9.4089965	5253
24 2486,899	9.3956581	4918	10.6043419	40210,722	36	24 2567,564	9.4095212	5247
25 2489,716	9.3961499	4911	10.6038501	40165,219	35	25 2570,664	9.4100454	5242
26 2492,533	9.3966410	4905	10.6033590	40119,823	34	26 2573,766	9.4105690	5236
27 2495,350	9.3971315	4900	10.6028685	40074,532	33	27 2576,868	9.4110921	5231
28 2498,167	9.3976215	4894	10.6023785	40029,347	32	28 2579,970	9.4116146	5225
29 2500,984	9.3981109	4887	10.6018891	39984,267	31	29 2583,073	9.4121366	5220
30 2503,800	9.3985996	4882	10.6014004	39939,292	30	30 2586,176	9.4126581	5215
31 2506,616	9.3990878	4876	10.6009122	39894,421	29	31 2589,280	9.4131789	5208
32 2509,432	9.3995754	4871	10.6004246	39849,654	28	32 2592,384	9.4136993	5204
33 2512,248	9.4000625	4864	10.5999375	39804,991	27	33 2595,488	9.4142191	5198
34 2515,063	9.4005489	4859	10.5994511	39760,431	26	34 2598,593	9.4147383	5192
35 2517,879	9.4010348	4853	10.5989652	39715,975	25	35 2601,699	9.4152570	5187
36 2520,694	9.4015201	4847	10.5984799	39671,621	24	36 2604,805	9.4157752	5182
37 2523,508	9.4020048	4841	10.5979952	39627,369	23	37 2607,911	9.4162928	5176
38 2526,323	9.4024889	4835	10.5975111	39583,219	22	38 2611,018	9.4168099	5171
39 2529,137	9.4029724	4830	10.5970276	39539,171	21	39 2614,126	9.4173265	5166
40 2531,952	9.4034554	4824	10.5965446	39495,224	20	40 2617,234	9.4178423	5160
41 2534,766	9.4039378	4818	10.5960622	39451,379	19	41 2620,342	9.4183580	5155
42 2537,579	9.4044196	4813	10.5955804	39407,633	18	42 2623,451	9.4188729	5149
43 2540,393	9.4049009	4807	10.5950991	39363,988	17	43 2626,560	9.4193874	5145
44 2543,206	9.4053816	4801	10.5946184	39320,443	16	44 2629,670	9.4199013	5139
45 2546,019	9.4058617	4796	10.5941383	39276,997	15	45 2632,780	9.4204146	5133
46 2548,832	9.4063413	4790	10.5936587	39233,651	14	46 2635,891	9.4209275	5129
47 2551,645	9.4068203	4784	10.5931797	39190,403	13	47 2639,002	9.4214398	5123
48 2554,458	9.4072987	4779	10.5927013	39147,254	12	48 2642,114	9.4219515	5117
49 2557,270	9.4077766	4773	10.5922234	39104,203	11	49 2645,226	9.4224628	5113
50 2560,082	9.4082539	4767	10.5917461	39061,250	10	50 2648,339	9.4229733	5107
51 2562,894	9.4087306	4762	10.5912694	39018,395	9	51 2651,452	9.4234838	5103
52 2565,705	9.4092068	4756	10.5907932	38975,637	8	52 2654,566	9.4239933	5097
53 2568,517	9.4096824	4751	10.5903176	38932,976	7	53 2657,680	9.4245026	5091
54 2571,328	9.4101575	4745	10.5898425	38890,411	6	54 2660,794	9.4250113	5087
55 2574,139	9.4106320	4739	10.5893680	38847,943	5	55 2663,909	9.4255194	5081
56 2576,950	9.4111059	4734	10.5888941	38805,570	4	56 2667,025	9.4260271	5077
57 2579,760	9.4115793	4729	10.5884207	38763,293	3	57 2670,141	9.4265342	5071
58 2582,570	9.4120522	4723	10.5879478	38721,112	2	58 2673,257	9.4270408	5065
59 2585,381	9.4125245	4717	10.5874755	38679,025	1	59 2676,374	9.4275469	5061
60 2588,190	9.4129962	4710	10.5870038	38637,033	0	60 2679,492	9.4280525	5056
Co-fines		Diff.	L. Sec. N. Sec. M			Co-tangents		Diff.

# 14 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-sines		
	10.6032289	40107,809	60	0	10306,136	10.0130959		9.9869041	9702,957	60
5378	10.6026911	40058,165	59	1	10306,884	10.0131274	315	9.9868726	9702,253	59
5374	10.6021537	40008,636	58	2	10307,633	10.0131590	316	9.9868410	9701,548	58
5370	10.6016170	39959,223	57	3	10308,383	10.0131906	316	9.9868094	9700,842	57
5367	10.6010809	39909,924	56	4	10309,134	10.0132222	316	9.9867778	9700,136	56
5363	10.6005453	39860,739	55	5	10309,886	10.0132539	317	9.9867461	9699,428	55
5349	10.6000104	39811,669	54	6	10310,639	10.0132856	317	9.9867144	9698,720	54
5344	10.5994760	39762,712	53	7	10311,393	10.0133173	317	9.9866827	9698,011	53
5338	10.5989422	39713,868	52	8	10312,147	10.0133491	318	9.9866509	9697,301	52
5332	10.5984090	39665,137	51	9	10312,903	10.0133809	318	9.9866191	9696,591	51
5327	10.5978763	39616,518	50	10	10313,660	10.0134128	319	9.9865872	9695,879	50
5321	10.5973442	39568,011	49	11	10314,418	10.0134447	319	9.9865553	9695,167	49
5315	10.5968127	39519,615	48	12	10315,177	10.0134767	320	9.9865233	9694,453	48
5309	10.5962818	39471,331	47	13	10315,936	10.0135087	320	9.9864913	9693,740	47
5304	10.5957514	39423,157	46	14	10316,697	10.0135407	320	9.9864593	9693,025	46
5298	10.5952216	39375,094	45	15	10317,459	10.0135727	320	9.9864273	9692,309	45
5292	10.5946924	39327,141	44	16	10318,222	10.0136048	321	9.9863952	9691,593	44
5287	10.5941637	39279,297	43	17	10318,985	10.0136367	322	9.9863630	9690,875	43
5281	10.5936356	39231,153	42	18	10319,750	10.0136692	322	9.9863308	9690,157	42
5275	10.5931081	39183,937	41	19	10320,516	10.0137014	322	9.9862986	9689,438	41
5270	10.5925811	39136,420	40	20	10321,282	10.0137337	323	9.9862663	9688,719	40
5264	10.5920547	39089,011	39	21	10322,050	10.0137660	323	9.9862340	9688,000	39
5259	10.5915288	39041,710	38	22	10322,818	10.0137983	323	9.9862017	9687,277	38
5253	10.5910035	38994,516	37	23	10323,588	10.0138307	324	9.9861693	9686,555	37
5247	10.5904788	38947,429	36	24	10324,359	10.0138631	324	9.9861369	9685,832	36
5242	10.5899540	38900,448	35	25	10325,130	10.0138955	324	9.9861045	9685,108	35
5236	10.5894310	38853,574	34	26	10325,903	10.0139280	325	9.9860720	9684,383	34
5231	10.5889079	38806,805	33	27	10326,676	10.0139606	325	9.9860394	9683,658	33
5225	10.5883854	38760,142	32	28	10327,451	10.0139931	326	9.9860069	9682,931	32
5220	10.5878634	38713,584	31	29	10328,227	10.0140258	327	9.9859742	9682,204	31
5215	10.5873419	38667,131	30	30	10329,003	10.0140584	326	9.9859416	9681,476	30
5208	10.5868211	38620,782	29	31	10329,781	10.0140911	327	9.9859089	9680,748	29
5204	10.5863007	38574,537	28	32	10330,559	10.0141238	327	9.9858762	9680,018	28
5198	10.5857809	38528,396	27	33	10331,339	10.0141566	328	9.9858434	9679,288	27
5192	10.5852617	38482,358	26	34	10332,119	10.0141894	328	9.9858106	9678,557	26
5187	10.5847430	38436,424	25	35	10332,901	10.0142223	329	9.9857777	9677,825	25
5182	10.5842248	38390,491	24	36	10333,683	10.0142551	328	9.9857449	9677,092	24
5176	10.5837072	38344,861	23	37	10334,467	10.0142881	330	9.9857119	9676,358	23
5171	10.5831901	38299,233	22	38	10335,251	10.0143210	329	9.9856790	9675,624	22
5166	10.5826735	38253,707	21	39	10336,037	10.0143540	330	9.9856460	9674,888	21
5160	10.5821575	38208,281	20	40	10336,823	10.0143871	331	9.9856129	9674,152	20
5155	10.5816420	38162,957	19	41	10337,611	10.0144202	331	9.9855798	9673,415	19
5149	10.5811271	38117,733	18	42	10338,399	10.0144533	331	9.9855467	9672,678	18
5145	10.5806126	38072,609	17	43	10339,188	10.0144865	332	9.9855135	9671,939	17
5139	10.5800987	38027,585	16	44	10339,979	10.0145197	332	9.9854803	9671,200	16
5133	10.5795854	37982,661	15	45	10340,770	10.0145529	332	9.9854471	9670,459	15
5129	10.5790725	37937,835	14	46	10341,563	10.0145862	333	9.9854138	9669,718	14
5123	10.5785602	37893,109	13	47	10342,356	10.0146195	333	9.9853805	9668,977	13
5117	10.5780485	37848,481	12	48	10343,151	10.0146529	334	9.9853471	9668,234	12
5113	10.5775372	37803,951	11	49	10343,946	10.0146862	333	9.9853138	9667,490	11
5107	10.5770265	37759,519	10	50	10344,743	10.0147197	335	9.9852803	9666,746	10
5103	10.5765162	37715,185	9	51	10345,540	10.0147532	335	9.9852468	9666,001	9
5097	10.5760065	37670,947	8	52	10346,338	10.0147867	335	9.9852133	9665,255	8
5091	10.5754974	37626,807	7	53	10347,138	10.0148202	335	9.9851798	9664,508	7
5087	10.5749887	37582,763	6	54	10347,938	10.0148538	336	9.9851462	9663,761	6
5081	10.5744806	37538,815	5	55	10348,740	10.0148875	337	9.9851125	9663,012	5
5077	10.5739729	37494,963	4	56	10349,542	10.0149211	336	9.9850788	9662,263	4
5071	10.5734658	37451,207	3	57	10350,346	10.0149548	337	9.9850452	9661,513	3
5066	10.5729592	37407,546	2	58	10351,150	10.0149886	338	9.9850114	9660,762	2
5061	10.5724531	37363,980	1	59	10351,955	10.0150224	338	9.9849776	9660,011	1
5056	10.5719475	37320,508	0	60	10352,762	10.0150562	338	9.9849438	9659,256	0
Diff.	L. Tang.	N. Tan.	M	Co-secants			D	L. Sine	N. Sine	M

# 15 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants	M. N. Tan.	L. Tan.	Diff.
0 2588,190	9.4129962		10.5870038	38637,033	60	
1 2591,000	9.4134674	4712	10.5865320	38595,135	59	5050
2 2593,810	9.4139381	4707	10.5860619	38553,332	58	5046
3 2596,619	9.4144082	4701	10.5855918	38511,622	57	5041
4 2599,428	9.4148778	4696	10.5851222	38470,006	56	5036
5 2602,237	9.4153468	4690	10.5846532	38428,482	55	5030
6 2605,045	9.4158152	4684	10.5841848	38387,052	54	5026
7 2607,853	9.4162832	4680	10.5837168	38345,713	53	5021
8 2610,662	9.4167506	4674	10.5832494	38304,467	52	5016
9 2613,469	9.4172174	4668	10.5827826	38263,313	51	5010
10 2616,277	9.4176837	4663	10.5823163	38222,251	50	5005
11 2619,085	9.4181495	4658	10.5818505	38181,280	49	5000
12 2621,892	9.4186148	4653	10.5813852	38140,399	48	4995
13 2624,699	9.4190795	4647	10.5809205	38099,610	47	4991
14 2627,506	9.4195436	4641	10.5804564	38058,911	46	4985
15 2630,312	9.4200073	4637	10.5799927	38018,301	45	4981
16 2633,118	9.4204704	4631	10.5795296	37977,782	44	4976
17 2635,925	9.4209330	4626	10.5790670	37937,352	43	4971
18 2638,730	9.4213950	4620	10.5786050	37897,011	42	4966
19 2641,536	9.4218566	4616	10.5781434	37856,760	41	4961
20 2644,342	9.4223176	4610	10.5776824	37816,596	40	4956
21 2647,147	9.4227780	4604	10.5772220	37776,522	39	4951
22 2649,952	9.4232380	4600	10.5767620	37736,535	38	4947
23 2652,757	9.4236974	4594	10.5763026	37696,636	37	4941
24 2655,561	9.4241563	4589	10.5758437	37656,824	36	4937
25 2658,366	9.4246147	4584	10.5753853	37617,100	35	4932
26 2661,170	9.4250726	4579	10.5749274	37577,462	34	4927
27 2663,973	9.4255299	4573	10.5744701	37537,911	33	4923
28 2666,777	9.4259867	4568	10.5740133	37498,447	32	4917
29 2669,581	9.4264430	4563	10.5735570	37459,066	31	4913
30 2672,384	9.4268988	4558	10.5731012	37419,775	30	4908
31 2675,187	9.4273541	4553	10.5726459	37380,568	29	4903
32 2677,989	9.4278089	4548	10.5721911	37341,446	28	4899
33 2680,792	9.4282631	4542	10.5717369	37302,409	27	4894
34 2683,594	9.4287169	4538	10.5712831	37263,457	26	4889
35 2686,396	9.4291701	4532	10.5708295	37224,589	25	4884
36 2689,198	9.4296228	4527	10.5703772	37185,805	24	4880
37 2692,000	9.4300750	4522	10.5699250	37147,105	23	4875
38 2694,801	9.4305267	4517	10.5694733	37108,489	22	4871
39 2697,602	9.4309775	4512	10.5690211	37069,956	21	4866
40 2700,403	9.4314286	4507	10.5685714	37031,506	20	4861
41 2703,204	9.4318788	4502	10.5681212	36993,139	19	4857
42 2706,004	9.4323285	4497	10.5676715	36954,854	18	4852
43 2708,805	9.4327777	4492	10.5672223	36916,652	17	4847
44 2711,605	9.4332264	4487	10.5667730	36878,532	16	4842
45 2714,404	9.4336746	4482	10.5663254	36840,493	15	4838
46 2717,204	9.4341223	4477	10.5658777	36802,536	14	4834
47 2720,003	9.4345694	4471	10.5654306	36764,660	13	4829
48 2722,802	9.4350161	4467	10.5649835	36726,865	12	4824
49 2725,601	9.4354623	4462	10.5645377	36689,151	11	4820
50 2728,400	9.4359080	4457	10.5640920	36651,518	10	4815
51 2731,198	9.4363532	4452	10.5636468	36613,964	9	4811
52 2733,997	9.4367980	4448	10.5632020	36576,491	8	4806
53 2736,794	9.4372422	4442	10.5627578	36539,097	7	4801
54 2739,592	9.4376855	4437	10.5623141	36501,783	6	4797
55 2742,390	9.4381292	4433	10.5618708	36464,548	5	4793
56 2745,187	9.4385719	4427	10.5614281	36427,392	4	4788
57 2747,984	9.4390142	4423	10.5609858	36390,315	3	4784
58 2750,781	9.4394560	4418	10.5605440	36353,316	2	4779
59 2753,577	9.4398973	4413	10.5601027	36316,395	1	4774
60 2756,374	9.4403381	4408	10.5596619	36279,553	0	4770
Co-fines		Diff.	L. Sec.	N. Sec.	M.	
						Co-tangents

# 15 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	D	Co-sines		
5050	10.5719475	37320,508	60	0	10352,762	10.0150562	339	9.9849438	9059,258	60
5046	10.5714425	37277,131	59	1	10353,569	10.0150901	339	9.9849099	9058,505	59
5040	10.5709379	37233,847	58	2	10354,378	10.0151240	339	9.9848760	9057,751	58
5036	10.5704339	37190,653	57	3	10355,187	10.0151580	340	9.9848420	9056,996	57
5030	10.5699303	37147,561	56	4	10355,998	10.0151919	339	9.9848081	9056,240	56
5026	10.5694273	37104,558	55	5	10356,809	10.0152260	341	9.9847740	9055,484	55
5020	10.5689247	37061,648	54	6	10357,621	10.0152600	340	9.9847400	9054,726	54
5016	10.5684227	37018,830	53	7	10358,435	10.0152941	341	9.9847059	9053,968	53
5010	10.5679211	36976,104	52	8	10359,249	10.0153281	342	9.9846717	9053,209	52
5005	10.5674201	36933,469	51	9	10360,065	10.0153625	342	9.9846375	9052,449	51
5001	10.5669196	36890,927	50	10	10360,881	10.0153967	342	9.9846033	9051,689	50
4995	10.5664195	36848,475	49	11	10361,699	10.0154310	343	9.9845690	9050,927	49
4991	10.5659200	36806,115	48	12	10362,517	10.0154653	343	9.9845347	9050,165	48
4985	10.5654209	36763,845	47	13	10363,337	10.0154996	343	9.9845004	9049,402	47
4981	10.5649224	36721,665	46	14	10364,157	10.0155340	344	9.9844660	9048,638	46
4976	10.5644243	36679,955	45	15	10364,979	10.0155684	344	9.9844316	9047,873	45
4971	10.5639267	36637,575	44	16	10365,801	10.0156029	345	9.9843971	9047,108	44
4966	10.5634296	36595,665	43	17	10366,625	10.0156374	345	9.9843626	9046,341	43
4961	10.5629330	36553,844	42	18	10367,449	10.0156719	345	9.9843281	9045,574	42
4956	10.5624369	36512,111	41	19	10368,275	10.0157065	346	9.9842935	9044,806	41
4951	10.5619413	36470,467	40	20	10369,101	10.0157411	346	9.9842589	9044,037	40
4947	10.5614462	36428,911	39	21	10369,929	10.0157758	347	9.9842242	9043,268	39
4941	10.5609515	36387,444	38	22	10370,757	10.0158105	347	9.9841895	9042,497	38
4937	10.5604574	36346,064	37	23	10371,587	10.0158452	347	9.9841548	9041,726	37
4932	10.5599637	36304,771	36	24	10372,417	10.0158800	348	9.9841200	9040,954	36
4927	10.5594705	36263,566	35	25	10373,249	10.0159148	348	9.9840852	9040,181	35
4923	10.5589778	36222,447	34	26	10374,082	10.0159497	349	9.9840503	9039,407	34
4917	10.5584855	36181,415	33	27	10374,915	10.0159846	349	9.9840154	9038,633	33
4913	10.5579938	36140,469	32	28	10375,750	10.0160195	349	9.9839805	9037,858	32
4908	10.5575025	36099,609	31	29	10376,585	10.0160545	350	9.9839455	9037,081	31
4903	10.5570117	36058,835	30	30	10377,422	10.0160895	350	9.9839105	9036,305	30
4899	10.5565214	36018,146	29	31	10378,260	10.0161245	350	9.9838755	9035,527	29
4894	10.5560315	35977,543	28	32	10379,098	10.0161596	351	9.9838404	9034,748	28
4889	10.5555421	35937,024	27	33	10379,938	10.0161948	352	9.9838052	9033,969	27
4884	10.5550532	35896,590	26	34	10380,779	10.0162299	351	9.9837701	9033,189	26
4880	10.5545648	35856,241	25	35	10381,621	10.0162652	353	9.9837348	9032,408	25
4875	10.5540768	35815,975	24	36	10382,463	10.0163004	352	9.9836996	9031,626	24
4871	10.5535893	35775,794	23	37	10383,307	10.0163357	353	9.9836643	9030,843	23
4865	10.5531022	35735,596	22	38	10384,152	10.0163710	353	9.9836290	9030,060	22
4861	10.5526157	35695,681	21	39	10384,998	10.0164064	354	9.9835936	9029,275	21
4857	10.5521296	35655,749	20	40	10385,844	10.0164418	354	9.9835582	9028,490	20
4852	10.5516439	35615,900	19	41	10386,692	10.0164773	355	9.9835227	9027,704	19
4847	10.5511587	35576,133	18	42	10387,541	10.0165128	355	9.9834872	9026,917	18
4842	10.5506740	35536,449	17	43	10388,391	10.0165483	355	9.9834517	9026,130	17
4838	10.5501898	35496,846	16	44	10389,242	10.0165838	356	9.9834161	9025,342	16
4834	10.5497060	35457,325	15	45	10390,094	10.0166195	356	9.9833805	9024,552	15
4828	10.5492226	35417,886	14	46	10390,947	10.0166551	356	9.9833449	9023,762	14
4825	10.5487398	35378,528	13	47	10391,800	10.0166908	357	9.9833092	9022,972	13
4819	10.5482573	35339,251	12	48	10392,655	10.0167262	357	9.9832735	9022,180	12
4815	10.5477754	35300,054	11	49	10393,511	10.0167618	358	9.9832377	9021,387	11
4811	10.5472939	35260,938	10	50	10394,368	10.0167981	358	9.9832019	9020,594	10
4806	10.5468128	35221,902	9	51	10395,226	10.0168339	358	9.9831661	9019,800	9
4801	10.5463322	35182,946	8	52	10396,085	10.0168698	359	9.9831302	9019,005	8
4797	10.5458521	35144,070	7	53	10396,945	10.0169058	359	9.9830942	9018,210	7
4793	10.5453724	35105,273	6	54	10397,806	10.0169417	360	9.9830583	9017,413	6
4788	10.5448931	35066,555	5	55	10398,669	10.0169777	360	9.9830223	9016,616	5
4784	10.5444143	35027,916	4	56	10399,532	10.0170138	361	9.9829862	9015,818	4
4779	10.5439359	34989,356	3	57	10400,396	10.0170499	361	9.9829501	9015,015	3
4774	10.5434580	34950,874	2	58	10401,261	10.0170860	361	9.9829140	9014,219	2
4770	10.5429806	34912,470	1	59	10402,127	10.0171222	362	9.9828778	9013,418	1
Diff.	10.5425036	34874,144	0	60	10402,994	10.0171584	362	9.9828416	9012,617	0
	L. Tang.	N. Tan.	M		Co-secants		D	L. Sine	N. Sine	M

74 Degrees

ft

16 Degrees

M	N. Sine	L. Sine	Diff.	Co-secants			M	N. Tan.	L. Tan.	Diff.
0	2756,374	9.4403381	4403	10.5596615	36279,553	50	0	2867,454	9.4574964	4766
1	2759,170	9.4407784	4398	10.5592216	36242,788	59	1	2870,602	9.4579730	4761
2	2761,965	9.4412182	4394	10.5587818	36206,101	58	2	2873,751	9.4584491	4757
3	2764,761	9.4416576	4389	10.5583424	36169,490	57	3	2876,900	9.4589246	4753
4	2767,556	9.4420965	4384	10.5579035	36132,957	56	4	2880,050	9.4594001	4748
5	2770,352	9.4425349	4379	10.5574651	36096,501	55	5	2883,201	9.4598745	4743
6	2773,147	9.4429728	4375	10.5570272	36060,121	54	6	2886,352	9.4603490	4740
7	2775,941	9.4434103	4369	10.5565897	36023,818	53	7	2889,503	9.4608237	4735
8	2778,736	9.4438472	4365	10.5561528	35987,590	52	8	2892,655	9.4612967	4730
9	2781,530	9.4442837	4360	10.5557163	35951,439	51	9	2895,808	9.4617697	4726
10	2784,324	9.4447197	4356	10.5552803	35915,363	50	10	2898,961	9.4622423	4722
11	2787,118	9.4451553	4351	10.5548447	35879,362	49	11	2902,114	9.4627145	4718
12	2789,911	9.4455904	4346	10.5544096	35843,437	48	12	2905,269	9.4631865	4713
13	2792,704	9.4460250	4341	10.5539750	35807,586	47	13	2908,423	9.4636576	4709
14	2795,497	9.4464591	4336	10.5535409	35771,810	46	14	2911,578	9.4641285	4705
15	2798,290	9.4468927	4332	10.5531073	35736,108	45	15	2914,734	9.4645990	4700
16	2801,083	9.4473259	4327	10.5526741	35700,481	44	16	2917,890	9.4650690	4696
17	2803,875	9.4477586	4323	10.5522414	35664,928	43	17	2921,047	9.4655386	4692
18	2806,667	9.4481909	4318	10.5518091	35629,448	42	18	2924,205	9.4660078	4687
19	2809,459	9.4486227	4313	10.5513773	35594,042	41	19	2927,363	9.4664765	4683
20	2812,251	9.4490540	4309	10.5509460	35558,710	40	20	2930,521	9.4669447	4679
21	2815,042	9.4494849	4304	10.5505151	35523,450	39	21	2933,680	9.4674127	4675
22	2817,833	9.4499153	4299	10.5500847	35488,263	38	22	2936,839	9.4678802	4671
23	2820,624	9.4503452	4295	10.5496548	35453,149	37	23	2939,999	9.4683473	4666
24	2823,415	9.4507747	4290	10.5492253	35418,107	36	24	2943,160	9.4688139	4662
25	2826,205	9.4512037	4285	10.5487963	35383,138	35	25	2946,321	9.4692801	4658
26	2828,995	9.4516322	4281	10.5483678	35348,240	34	26	2949,483	9.4697459	4653
27	2831,785	9.4520603	4276	10.5479397	35313,414	33	27	2952,645	9.4702112	4650
28	2834,575	9.4524879	4272	10.5475121	35278,660	32	28	2955,808	9.4706762	4645
29	2837,364	9.4529151	4267	10.5470849	35243,973	31	29	2958,971	9.4711407	4641
30	2840,153	9.4533418	4263	10.5466582	35209,365	30	30	2962,135	9.4716048	4637
31	2842,942	9.4537681	4258	10.5462319	35174,824	29	31	2965,299	9.4720685	4633
32	2845,731	9.4541939	4253	10.5458061	35140,354	28	32	2968,464	9.4725318	4629
33	2848,520	9.4546192	4249	10.5453808	35105,954	27	33	2971,630	9.4729947	4625
34	2851,308	9.4550441	4245	10.5449559	35071,625	26	34	2974,796	9.4734572	4621
35	2854,096	9.4554686	4240	10.5445314	35037,365	25	35	2977,962	9.4739192	4616
36	2856,884	9.4558926	4235	10.5441074	35003,175	24	36	2981,129	9.4743808	4613
37	2859,671	9.4563161	4231	10.5436839	34969,055	23	37	2984,297	9.4748421	4609
38	2862,458	9.4567392	4226	10.5432608	34935,002	22	38	2987,463	9.4753029	4604
39	2865,246	9.4571618	4222	10.5428382	34901,023	21	39	2990,634	9.4757633	4600
40	2868,032	9.4575840	4218	10.5424160	34867,110	20	40	2993,803	9.4762233	4596
41	2870,819	9.4580058	4213	10.5419942	34833,267	19	41	2996,973	9.4766829	4592
42	2873,605	9.4584271	4209	10.5415729	34799,492	18	42	3000,144	9.4771421	4588
43	2876,391	9.4588480	4204	10.5411520	34765,785	17	43	3003,315	9.4776009	4583
44	2879,177	9.4592684	4200	10.5407316	34732,146	16	44	3006,486	9.4780592	4579
45	2881,963	9.4596884	4195	10.5403116	34698,576	15	45	3009,658	9.4785172	4575
46	2884,748	9.4601079	4191	10.5398921	34665,073	14	46	3012,831	9.4789748	4570
47	2887,533	9.4605270	4186	10.5394730	34631,637	13	47	3016,004	9.4794319	4567
48	2890,318	9.4609456	4182	10.5390544	34598,269	12	48	3019,178	9.4798887	4562
49	2893,103	9.4613638	4178	10.5386362	34564,969	11	49	3022,352	9.4803451	4558
50	2895,887	9.4617816	4173	10.5382184	34531,735	10	50	3025,527	9.4808011	4554
51	2898,671	9.4621989	4169	10.5378011	34498,568	9	51	3028,703	9.4812566	4550
52	2901,455	9.4626158	4165	10.5373842	34465,467	8	52	3031,879	9.4817118	4545
53	2904,239	9.4630323	4160	10.5369677	34432,433	7	53	3035,055	9.4821666	4541
54	2907,022	9.4634483	4156	10.5365517	34399,465	6	54	3038,232	9.4826210	4537
55	2909,805	9.4638639	4151	10.5361361	34366,563	5	55	3041,410	9.4830750	4533
56	2912,588	9.4642790	4148	10.5357210	34333,727	4	56	3044,588	9.4835288	4529
57	2915,371	9.4646938	4143	10.5353062	34300,956	3	57	3047,767	9.4839818	4525
58	2918,153	9.4651081	4138	10.5348919	34268,251	2	58	3050,946	9.4844346	4521
59	2920,935	9.4655219	4134	10.5344781	34235,611	1	59	3054,126	9.4848870	4517
60	2923,717	9.4659353	4130	10.5340647	34203,036	0	60	3057,307	9.4853390	4513
	Co-fines		Diff.	L. Sec.	N. Sec.	M		Co-tangents	Diff.	

# 16 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-sines			M
	10.5425030	34874.144	50		c	10402.994	10.0171584	9.98284.16	9612.617	6c	
4766	10.5420270	34835.896	59	1	10403.863	10.0171946		9.9828054	9611.815	59	
4761	10.5415509	34797.726	58	2	10404.732	10.0172308		9.9827691	9611.012	58	
4757	10.5410752	34759.632	57	3	10405.602	10.0172672		9.9827328	9610.208	57	
4753	10.5406099	34721.616	56	4	10406.473	10.0173036		9.9826964	9609.403	56	
4748	10.5401251	34683.676	55	5	10407.346	10.0173400		9.9826600	9608.598	55	
4743	10.5396508	34645.813	54	6	10408.219	10.0173764		9.9826236	9607.792	54	
4740	10.5391768	34608.026		7	10409.094	10.0174125		9.9825871	9606.984	53	
4735	10.5387033	34570.315	53	8	10409.969	10.0174494		9.9825506	9606.177	52	
4730	10.5382303	34532.679	51	9	10410.845	10.0174860		9.9825140	9605.368	51	
4726	10.5377577	34495.120	50	10	10411.723	10.0175226		9.9824774	9604.558	50	
4722	10.5372853	34457.635	49	11	10412.601	10.0175592		9.9824408	9603.748	49	
4718	10.5368137	34420.226	48	12	10413.481	10.0175959		9.9824041	9602.937	48	
4713	10.5363424	34382.891	47	13	10414.362	10.0176320		9.9823674	9602.125	47	
4709	10.5358715	34345.631	46	14	10415.243	10.0176694		9.9823306	9601.312	46	
4705	10.5354010	34308.446	45	15	10416.126	10.0177062		9.9822938	9600.499	45	
4700	10.5349310	34271.334	44	16	10417.009	10.0177431		9.9822569	9599.684	44	
4696	10.5344614	34234.297	43	17	10417.894	10.0177795		9.9822201	9598.869	43	
4692	10.5339922	34197.333	42	18	10418.780	10.0178165		9.9821831	9598.053	42	
4687	10.5335235	34160.443	41	19	10419.667	10.0178538		9.9821462	9597.236	41	
4683	10.5330552	34123.626	40	20	10420.554	10.0178908		9.9821092	9596.418	40	
4679	10.5325873	34086.882	39	21	10421.443	10.0179279		9.9820721	9595.600	39	
4675	10.5321198	34050.210	38	22	10422.333	10.0179649		9.9820351	9594.781	38	
4671	10.5316527	34013.612	37	23	10423.224	10.0180021		9.9819979	9593.963	37	
4666	10.5311861	33977.055	36	24	10424.116	10.0180392		9.9819608	9593.140	36	
4662	10.5307199	33940.631	35	25	10425.009	10.0180764		9.9819236	9592.318	35	
4658	10.5302541	33904.249	34	26	10425.903	10.0181137		9.9818863	9591.496	34	
4653	10.5297888	33867.938	33	27	10426.798	10.0181510		9.9818490	9590.672	33	
4650	10.5293238	33831.699	32	28	10427.694	10.0181883		9.9818117	9589.848	32	
4645	10.5288593	33795.531	31	29	10428.591	10.0182256		9.9817744	9589.023	31	
4641	10.5283952	33759.434	30	30	10429.489	10.0182630		9.9817370	9588.197	30	
4637	10.5279315	33723.408	29	31	10430.388	10.0183005		9.9816995	9587.371	29	
4633	10.5274682	33687.453	28	32	10431.289	10.0183380		9.9816620	9586.543	28	
4629	10.5270053	33651.568	27	33	10432.190	10.0183755		9.9816245	9585.715	27	
4626	10.5265428	33615.753	26	34	10433.092	10.0184130		9.9815870	9584.886	26	
4620	10.5260808	33580.008	25	35	10433.995	10.0184506		9.9815494	9584.056	25	
4616	10.5256192	33544.333	24	36	10434.900	10.0184883		9.9815117	9583.226	24	
4613	10.5251579	33508.728	23	37	10435.805	10.0185260		9.9814740	9582.394	23	
4608	10.5246971	33473.191	22	38	10436.712	10.0185637		9.9814363	9581.562	22	
4604	10.5242367	33437.724	21	39	10437.619	10.0186014		9.9813986	9580.725	21	
4600	10.5237767	33402.326	20	40	10438.528	10.0186392		9.9813608	9579.893	20	
4596	10.5233171	33366.997	19	41	10439.437	10.0186771		9.9813229	9579.060	19	
4592	10.5228579	33331.736	18	42	10440.348	10.0187150		9.9812850	9578.225	18	
4588	10.5223991	33296.543	17	43	10441.259	10.0187529		9.9812471	9577.389	17	
4583	10.5219408	33261.419	16	44	10442.172	10.0187909		9.9812091	9576.552	16	
4580	10.5214828	33226.362	15	45	10443.086	10.0188289		9.9811711	9575.714	15	
4576	10.5210252	33191.373	14	46	10444.001	10.0188669		9.9811331	9574.875	14	
4571	10.5205681	33156.452	13	47	10444.917	10.0189050		9.9810950	9574.035	13	
4568	10.5201113	33121.598	12	48	10445.833	10.0189431		9.9810569	9573.195	12	
4564	10.5196549	33086.811	11	49	10446.751	10.0189813		9.9810187	9572.354	11	
4560	10.5191989	33052.091	10	50	10447.670	10.0190195		9.9809805	9571.512	10	
4555	10.5187434	33017.438	9	51	10448.590	10.0190577		9.9809423	9570.669	9	
4552	10.5182882	32982.851	8	52	10449.511	10.0190960		9.9809040	9569.825	8	
4548	10.5178334	32948.330	7	53	10450.433	10.0191343		9.9808657	9568.981	7	
4544	10.5173790	32913.876	6	54	10451.357	10.0191727		9.9808273	9568.136	6	
4540	10.5169250	32879.487	5	55	10452.281	10.0192111		9.9807889	9567.290	5	
4536	10.5164714	32845.164	4	56	10453.206	10.0192495		9.9807505	9566.445	4	
4532	10.5160182	32810.907	3	57	10454.132	10.0192880		9.9807120	9565.599	3	
4528	10.5155654	32776.715	2	58	10455.060	10.0193265		9.9806735	9564.747	2	
4524	10.5151130	32742.588	1	59	10455.988	10.0193651		9.9806349	9563.894	1	
4520	10.5146610	32708.526	0	60	10456.918	10.0194037		9.9805963	9563.041	0	
Diff	L. Tang.	N. Tan.	M		Co-Secants			D	L. Sine	N. Sine	M

73 Degrees

F11

# 17 Degrees

M.N. Sine	L. Sine	Diff	Co-secants			M.N. Tan.	L. Tan.	Diff
02923,717	9.4659353		10.5340647	34203,036	60	03057,307	9.4853390	
12926,499	9.4663483	+130	10.5336517	34170,526	59	13060,488	9.4857907	+4517
22929,280	9.4667609	+126	10.5332391	34138,080	58	23063,670	9.4862419	+4512
32932,061	9.4671730	+121	10.5328270	34105,699	57	33066,852	9.4866928	+4505
42934,842	9.4675848	+118	10.5324152	34073,382	56	43070,033	9.4871433	+4505
52937,623	9.4679966	+112	10.5320040	34041,130	55	53073,218	9.4875933	+4500
62940,403	9.4684069	+109	10.5315931	34008,941	54	63076,402	9.4880430	+4497
72943,183	9.4688173	+104	10.5311827	33976,816	53	73079,586	9.4884924	+4494
82945,963	9.4692273	+100	10.5307727	33944,754	52	83082,771	9.4889413	+4489
92948,743	9.4696369	+96	10.5303631	33912,755	51	93085,957	9.4893892	+4485
102951,522	9.4700461	+92	10.5299539	33880,820	50	103089,143	9.4898380	+4482
112954,302	9.4704548	+88	10.5295452	33848,948	49	113092,330	9.4902858	+4478
122957,081	9.4708631	+83	10.5291369	33817,138	48	123095,517	9.4907332	+4474
132959,859	9.4712710	+79	10.5287290	33785,391	47	133098,705	9.4911802	+4470
142962,638	9.4716785	+75	10.5283215	33753,707	46	143101,893	9.4916266	+4467
152965,416	9.4720856	+71	10.5279144	33722,084	45	153105,083	9.4920731	+4462
162968,194	9.4724922	+66	10.5275078	33690,524	44	163108,272	9.4925194	+4455
172970,971	9.4728985	+63	10.5271015	33659,020	43	173111,462	9.4929657	+4450
182973,749	9.4733043	+58	10.5266957	33627,589	42	183114,653	9.4934097	+4451
192976,526	9.4737097	+54	10.5262903	33596,214	41	193117,845	9.4938545	+4448
202979,303	9.4741146	+49	10.5258854	33564,900	40	203121,036	9.4942983	+4443
212982,079	9.4745192	+44	10.5254808	33533,647	39	213124,229	9.4947423	+4438
222984,856	9.4749234	+40	10.5250766	33502,455	38	223127,422	9.4951861	+4436
232987,632	9.4753271	+37	10.5246729	33471,324	37	233130,616	9.4956297	+4433
242990,408	9.4757304	+33	10.5242696	33440,254	36	243133,810	9.4960729	+4429
252993,184	9.4761334	+30	10.5238666	33409,244	35	253137,005	9.4965152	+4423
262995,959	9.4765359	+26	10.5234641	33378,294	34	263140,200	9.4969574	+4422
272998,734	9.4769380	+21	10.5230620	33347,405	33	273143,396	9.4973991	+4417
283001,509	9.4773396	+16	10.5226604	33316,575	32	283146,593	9.4978406	+4413
293004,284	9.4777409	+13	10.5222591	33285,805	31	293149,790	9.4982823	+4410
303007,058	9.4781418	+10	10.5218582	33255,095	30	303152,988	9.4987241	+4407
313009,832	9.4785423	+05	10.5214577	33224,444	29	313156,186	9.4991662	+4403
323012,606	9.4789423	+00	10.5210570	33193,853	28	323159,385	9.4996082	+4400
333015,380	9.4793420	-05	10.5206568	33163,320	27	333162,583	9.5000504	+4396
343018,153	9.4797412	-10	10.5202588	33132,847	26	343165,785	9.5004924	+4392
353020,926	9.4801401	-15	10.5198599	33102,432	25	353168,980	9.5009343	+4389
363023,699	9.4805385	-20	10.5194615	33072,076	24	363172,187	9.5013768	+4383
373026,471	9.4809366	-25	10.5190634	33041,778	23	373175,389	9.5018196	+4381
383029,244	9.4813342	-30	10.5186658	33011,539	22	383178,591	9.5022624	+4378
393032,016	9.4817315	-35	10.5182685	32981,357	21	393181,794	9.5027052	+4374
403034,788	9.4821283	-40	10.5178717	32951,234	20	403184,998	9.5031480	+4371
413037,559	9.4825248	-45	10.5174752	32921,168	19	413188,202	9.5035908	+4367
423040,331	9.4829208	-50	10.5170792	32891,160	18	423191,407	9.5040336	+4363
433043,102	9.4833165	-55	10.5166835	32861,209	17	433194,613	9.5044764	+4360
443045,872	9.4837117	-60	10.5162883	32831,316	16	443197,819	9.5049192	+4356
453048,643	9.4841066	-65	10.5158934	32801,479	15	453201,025	9.5053620	+4353
463051,413	9.4845010	-70	10.5154990	32771,700	14	463204,232	9.5058048	+4349
473054,183	9.4848951	-75	10.5151049	32741,977	13	473207,440	9.5062476	+4346
483056,953	9.4852888	-80	10.5147112	32712,311	12	483210,649	9.5066904	+4342
493059,723	9.4856820	-85	10.5143180	32682,702	11	493213,858	9.5071332	+4339
503062,492	9.4860749	-90	10.5139253	32653,149	10	503217,067	9.5075760	+4335
513065,261	9.4864674	-95	10.5135326	32623,652	9	513220,278	9.5080188	+4331
523068,030	9.4868595	-100	10.5131405	32594,211	8	523223,489	9.5084616	+4328
533070,798	9.4872512	-105	10.5127488	32564,825	7	533226,700	9.5089044	+4324
543073,566	9.4876426	-110	10.5123574	32535,496	6	543229,912	9.5093472	+4321
553076,334	9.4880335	-115	10.5119665	32506,222	5	553233,125	9.5097900	+4317
563079,102	9.4884240	-120	10.5115760	32477,003	4	563236,337	9.5102328	+4313
573081,869	9.4888142	-125	10.5111858	32447,840	3	573239,550	9.5106756	+4310
583084,636	9.4892040	-130	10.5107960	32418,732	2	583242,763	9.5111184	+4307
593087,403	9.4895934	-135	10.5104066	32389,678	1	593245,978	9.5115612	+4304
603090,170	9.4899824	-140	10.5100176	32360,680	0	603249,197	9.5120040	+4300
Co-fines		Diff	L. Sec. N. Sec. M			Co-tangents		Diff

# 72 Degrees

# 17 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
	10.5146610	32708,526	50		10456,918	10.0194037		9.9805963	9563,048	60
4517	10.5142093	32674,529	59	1	10457,848	10.0194423	386	9.9805577	9562,197	59
4512	10.5137551	32640,590	58	2	10458,780	10.0194810	387	9.9805190	9561,345	58
4509	10.5133072	32606,728	57	3	10459,712	10.0195197	387	9.9804803	9560,492	57
4505	10.5128567	32572,924	56	4	10460,646	10.0195583	388	9.9804415	9559,639	56
4500	10.5124067	32539,184	55	5	10461,581	10.0195973	388	9.9804027	9558,785	55
4497	10.5119570	32505,508	54	6	10462,516	10.0196361	388	9.9803639	9557,930	54
4494	10.5115076	32471,895	53	7	10463,453	10.0196750	389	9.9803250	9557,074	53
4489	10.5110587	32438,346	52	8	10464,391	10.0197140	390	9.9802860	9556,218	52
4485	10.5106102	32404,860	51	9	10465,330	10.0197529	389	9.9802471	9555,361	51
4482	10.5101620	32371,438	50	10	10466,270	10.0197919	390	9.9802081	9554,502	50
4478	10.5097142	32338,078	49	11	10467,211	10.0198310	391	9.9801690	9553,643	49
4475	10.5092668	32304,781	48	12	10468,153	10.0198701	391	9.9801299	9552,784	48
4470	10.5088198	32271,540	47	13	10469,096	10.0199092	391	9.9800908	9551,923	47
4467	10.5083731	32238,373	46	14	10470,040	10.0199484	392	9.9800516	9551,062	46
4462	10.5079269	32205,265	45	15	10470,986	10.0199870	392	9.9800124	9550,200	45
4459	10.5074810	32172,215	44	16	10471,932	10.0200268	393	9.9799732	9549,336	44
4456	10.5070354	32139,228	43	17	10472,879	10.0200661	393	9.9799339	9548,473	43
4451	10.5065903	32106,304	42	18	10473,828	10.0201054	393	9.9798946	9547,608	42
4448	10.5061455	32073,440	41	19	10474,777	10.0201444	394	9.9798552	9546,743	41
4443	10.5057012	32040,638	40	20	10475,728	10.0201842	394	9.9798158	9545,876	40
4441	10.5052571	32007,897	39	21	10476,679	10.0202236	394	9.9797764	9545,009	39
4436	10.5048135	31975,217	38	22	10477,632	10.0202631	395	9.9797369	9544,141	38
4433	10.5043702	31942,598	37	23	10478,586	10.0203027	395	9.9796973	9543,273	37
4429	10.5039273	31910,039	36	24	10479,540	10.0203422	395	9.9796578	9542,403	36
4425	10.5034848	31877,540	35	25	10480,496	10.0203818	396	9.9796182	9541,533	35
4422	10.5030426	31845,102	34	26	10481,453	10.0204215	397	9.9795785	9540,662	34
4417	10.5026009	31812,724	33	27	10482,411	10.0204612	397	9.9795388	9539,790	33
4415	10.5021594	31780,406	32	28	10483,370	10.0205009	397	9.9794991	9538,917	32
4410	10.5017184	31748,147	31	29	10484,330	10.0205407	398	9.9794593	9538,044	31
4407	10.5012777	31715,948	30	30	10485,291	10.0205805	398	9.9794195	9537,170	30
4403	10.5008374	31683,808	29	31	10486,253	10.0206202	398	9.9793796	9536,294	29
4400	10.5003974	31651,728	28	32	10487,217	10.0206602	398	9.9793398	9535,418	28
4396	10.4999578	31619,706	27	33	10488,181	10.0207002	400	9.9792998	9534,542	27
4392	10.4995186	31587,744	26	34	10489,146	10.0207401	401	9.9792599	9533,666	26
4389	10.4990797	31555,840	25	35	10490,113	10.0207802	401	9.9792198	9532,786	25
4385	10.4986412	31523,994	24	36	10491,080	10.0208202	400	9.9791798	9531,907	24
4381	10.4982031	31492,203	23	37	10492,049	10.0208603	401	9.9791397	9531,027	23
4378	10.4977653	31460,478	22	38	10493,019	10.0209004	402	9.9790996	9530,146	22
4374	10.4973279	31428,807	21	39	10493,989	10.0209404	402	9.9790594	9529,264	21
4371	10.4968908	31397,194	20	40	10494,961	10.0209806	403	9.9790192	9528,382	20
4367	10.4964541	31365,639	19	41	10495,934	10.0210211	403	9.9789789	9527,499	19
4363	10.4960178	31334,141	18	42	10496,908	10.0210614	403	9.9789386	9526,615	18
4360	10.4955818	31302,701	17	43	10497,883	10.0211017	403	9.9788983	9525,730	17
4356	10.4951462	31271,317	16	44	10498,859	10.0211421	404	9.9788579	9524,844	16
4353	10.4947109	31239,991	15	45	10499,830	10.0211825	404	9.9788175	9523,958	15
4349	10.4942760	31208,722	14	46	10500,805	10.0212230	405	9.9787770	9523,071	14
4346	10.4938414	31177,509	13	47	10501,779	10.0212635	405	9.9787365	9522,183	13
4342	10.4934072	31146,353	12	48	10502,774	10.0213040	405	9.9786960	9521,294	12
4339	10.4929733	31115,254	11	49	10503,750	10.0213444	406	9.9786554	9520,404	11
4335	10.4925398	31084,210	10	50	10504,738	10.0213852	406	9.9786148	9519,514	10
4331	10.4921067	31053,223	9	51	10505,722	10.0214255	407	9.9785741	9518,623	9
4328	10.4916739	31022,291	8	52	10506,706	10.0214666	407	9.9785334	9517,731	8
4325	10.4912414	30991,416	7	53	10507,692	10.0215073	407	9.9784927	9516,838	7
4321	10.4908093	30960,596	6	54	10508,679	10.0215481	408	9.9784519	9515,944	6
4317	10.4903776	30929,831	5	55	10509,667	10.0215889	408	9.9784111	9515,050	5
4315	10.4899461	30899,122	4	56	10510,656	10.0216298	409	9.9783702	9514,154	4
4310	10.4895151	30868,468	3	57	10511,646	10.0216707	409	9.9783293	9513,258	3
4307	10.4890844	30837,865	2	58	10512,637	10.0217117	410	9.9782883	9512,361	2
4304	10.4886540	30807,325	1	59	10513,629	10.0217526	409	9.9782474	9511,464	1
4300	10.4882240	30776,835	0	60	10514,622	10.0217937	411	9.9782063	9510,565	0
Diff	L. Tang.	N. Tan.	M		Co-secants		D	L. Sine	N. Sine	M

# 18 Degrees

M	N. Sine	L. Sine	Diff	Co-secants	M	N. Tan.	L. Tan.	Diff	
0	3090,170	9.4899824		10.5100176	32360,680	60	3249,197	9.5117760	
1	3092,936	9.4903716	3886	10.5096290	32331,736	59	3252,413	9.5122057	
2	3095,702	9.4907592	3882	10.5092408	32302,846	58	3255,630	9.5126351	
3	3098,468	9.4911471	3879	10.5088529	32274,011	57	3258,848	9.5130641	
4	3101,234	9.4915345	3874	10.5084655	32245,230	56	3262,066	9.5134927	
5	3103,999	9.4919216	3871	10.5080784	32216,503	55	3265,284	9.5139210	
6	3106,764	9.4923083	3867	10.5076917	32187,830	54	3268,504	9.5143490	
7	3109,529	9.4926946	3863	10.5073054	32159,210	53	3271,724	9.5147766	
8	3112,294	9.4930806	3860	10.5069194	32130,644	52	3274,944	9.5152039	
9	3115,058	9.4934661	3855	10.5065339	32102,132	51	3278,165	9.5156309	
10	3117,822	9.4938513	3852	10.5061487	32073,673	50	3281,387	9.5160575	
11	3120,586	9.4942361	3848	10.5057639	32045,266	49	3284,610	9.5164838	
12	3123,349	9.4946205	3844	10.5053795	32016,913	48	3287,833	9.5169097	
13	3126,112	9.4950046	3841	10.5049954	31988,613	47	3291,056	9.5173353	
14	3128,875	9.4953883	3837	10.5046117	31960,365	46	3294,281	9.5177606	
15	3131,638	9.4957716	3833	10.5042284	31932,170	45	3297,505	9.5181855	
16	3134,400	9.4961545	3829	10.5038455	31904,028	44	3300,731	9.5186101	
17	3137,163	9.4965370	3825	10.5034630	31875,937	43	3303,957	9.5190344	
18	3139,925	9.4969192	3822	10.5030808	31847,899	42	3307,184	9.5194583	
19	3142,686	9.4973010	3818	10.5026990	31819,913	41	3310,411	9.5198819	
20	3145,448	9.4976824	3814	10.5023176	31791,978	40	3313,639	9.5203052	
21	3148,209	9.4980635	3811	10.5019365	31764,095	39	3316,868	9.5207282	
22	3150,969	9.4984442	3807	10.5015558	31736,264	38	3320,097	9.5211508	
23	3153,730	9.4988245	3803	10.5011755	31708,484	37	3323,327	9.5215730	
24	3156,490	9.4992045	3800	10.5007955	31680,756	36	3326,557	9.5219950	
25	3159,250	9.4995845	3795	10.5004160	31653,078	35	3329,788	9.5224166	
26	3162,010	9.4999633	3793	10.5000367	31625,452	34	3333,020	9.5228379	
27	3164,770	9.5003421	3788	10.4996579	31597,876	33	3336,252	9.5232589	
28	3167,529	9.5007206	3785	10.4992794	31570,351	32	3339,485	9.5236795	
29	3170,288	9.5010987	3781	10.4989013	31542,877	31	3342,719	9.5240999	
30	3173,047	9.5014764	3777	10.4985236	31515,453	30	3345,953	9.5245199	
31	3175,805	9.5018538	3774	10.4981462	31488,079	29	3349,188	9.5249395	
32	3178,563	9.5022308	3770	10.4977692	31460,756	28	3352,424	9.5253589	
33	3181,321	9.5026075	3767	10.4973925	31433,483	27	3355,660	9.5257779	
34	3184,079	9.5029838	3763	10.4970162	31406,259	26	3358,896	9.5261966	
35	3186,836	9.5033597	3759	10.4966403	31379,086	25	3362,134	9.5266150	
36	3189,593	9.5037353	3756	10.4962647	31351,962	24	3365,372	9.5270331	
37	3192,350	9.5041105	3752	10.4958895	31324,887	23	3368,610	9.5274508	
38	3195,106	9.5044853	3748	10.4955147	31297,862	22	3371,850	9.5278682	
39	3197,863	9.5048598	3745	10.4951402	31270,886	21	3375,090	9.5282853	
40	3200,619	9.5052339	3741	10.4947661	31243,959	20	3378,330	9.5287021	
41	3203,374	9.5056077	3738	10.4943923	31217,081	19	3381,571	9.5291186	
42	3206,130	9.5059811	3734	10.4940189	31190,252	18	3384,813	9.5295347	
43	3208,885	9.5063542	3731	10.4936458	31163,472	17	3388,056	9.5299505	
44	3211,640	9.5067269	3727	10.4932731	31136,740	16	3391,299	9.5303661	
45	3214,395	9.5070992	3723	10.4929008	31110,057	15	3394,543	9.5307815	
46	3217,149	9.5074712	3720	10.4925288	31083,422	14	3397,787	9.5311961	
47	3219,903	9.5078428	3716	10.4921572	31056,835	13	3401,032	9.5316107	
48	3222,657	9.5082141	3713	10.4917859	31030,296	12	3404,278	9.5320253	
49	3225,411	9.5085850	3709	10.4914150	31003,805	11	3407,524	9.5324398	
50	3228,164	9.5089556	3706	10.4910444	30977,363	10	3410,771	9.5328542	
51	3230,917	9.5093258	3702	10.4906742	30950,967	9	3414,019	9.5332683	
52	3233,670	9.5096956	3698	10.4903044	30924,620	8	3417,267	9.5336825	
53	3236,422	9.5100651	3695	10.4899349	30898,319	7	3420,516	9.5340961	
54	3239,174	9.5104343	3692	10.4895657	30872,066	6	3423,765	9.5345094	
55	3241,926	9.5108031	3688	10.4891969	30845,860	5	3427,015	9.5349216	
56	3244,678	9.5111716	3685	10.4888284	30819,702	4	3430,266	9.5353337	
57	3247,429	9.5115397	3681	10.4884603	30793,593	3	3433,518	9.5357455	
58	3250,180	9.5119074	3677	10.4880926	30767,525	2	3436,770	9.5361568	
59	3252,931	9.5122745	3675	10.4877251	30741,507	1	3440,023	9.5365671	
60	3255,682	9.5126415	3670	10.4873581	30715,535	0	3443,276	9.5369719	
Co-fines				Diff	L. Sec.	N. Sec.	M	Co-tangents	Diff

## 71 Degrees

# 18 Degrees

Diff	Co-tangents		M	N. Sec	L. Sec.	D	Co-lines	
10.4882240	30776,835	60	C	10514,622	10.0217937	10	9.9782063	9510,563
10.4877943	30746,400	59	1	10515,617	10.0218347	11	9.9781653	9509,666
10.4873649	30716,020	58	2	10516,612	10.0218759	12	9.9781241	9508,766
10.4869353	30685,694	57	3	10517,608	10.0219170	13	9.9780830	9507,865
10.4865073	30655,421	56	4	10518,606	10.0219582	14	9.9780418	9506,963
10.4860790	30625,203	55	5	10519,603	10.0219994	15	9.9780006	9506,061
10.4856510	30595,038	54	6	10520,604	10.0220407	16	9.9779593	9505,157
10.4852234	30564,928	53	7	10521,605	10.0220820	17	9.9779180	9504,253
10.4847961	30534,870	52	8	10522,607	10.0221234	18	9.9778766	9503,348
10.4843691	30504,866	51	9	10523,610	10.0221647	19	9.9778353	9502,443
10.4839425	30474,915	50	10	10524,614	10.0222062	20	9.9777938	9501,536
10.4835162	30445,018	49	11	10525,619	10.0222477	21	9.9777523	9500,629
10.4830903	30415,173	48	12	10526,625	10.0222894	22	9.9777108	9499,721
10.4826647	30385,381	47	13	10527,633	10.0223307	23	9.9776693	9498,812
10.4822394	30355,641	46	14	10528,641	10.0223723	24	9.9776277	9497,902
10.4818145	30325,954	45	15	10529,651	10.0224140	25	9.9775860	9496,991
10.4813899	30296,320	44	16	10530,661	10.0224556	26	9.9775444	9496,080
10.4809656	30266,737	43	17	10531,673	10.0224974	27	9.9775026	9495,168
10.4805417	30237,207	42	18	10532,686	10.0225391	28	9.9774609	9494,255
10.4801181	30207,728	41	19	10533,699	10.0225809	29	9.9774191	9493,341
10.4796948	30178,301	40	20	10534,714	10.0226228	30	9.9773772	9492,426
10.4792718	30148,926	39	21	10535,730	10.0226646	31	9.9773354	9491,511
10.4788492	30119,603	38	22	10536,747	10.0227066	32	9.9772934	9490,595
10.4784270	30090,330	37	23	10537,765	10.0227485	33	9.9772515	9489,678
10.4780050	30061,109	36	24	10538,785	10.0227905	34	9.9772095	9488,760
10.4775834	30031,939	35	25	10539,805	10.0228326	35	9.9771674	9487,842
10.4771621	30002,820	34	26	10540,826	10.0228747	36	9.9771253	9486,922
10.4767411	29973,751	33	27	10541,849	10.0229168	37	9.9770832	9486,002
10.4763205	29944,734	32	28	10542,873	10.0229590	38	9.9770410	9485,081
10.4759001	29915,766	31	29	10543,897	10.0230012	39	9.9769988	9484,159
10.4754801	29886,850	30	30	10544,923	10.0230434	40	9.9769566	9483,237
10.4750605	29857,983	29	31	10545,950	10.0230857	41	9.9769143	9482,313
10.4746411	29829,167	28	32	10546,978	10.0231280	42	9.9768720	9481,389
10.4742221	29800,400	27	33	10548,007	10.0231704	43	9.9768296	9480,464
10.4738034	29771,683	26	34	10549,037	10.0232128	44	9.9767872	9479,538
10.4733850	29743,016	25	35	10550,068	10.0232553	45	9.9767447	9478,612
10.4729669	29714,399	24	36	10551,101	10.0232978	46	9.9767022	9477,684
10.4725492	29685,831	23	37	10552,134	10.0233403	47	9.9766597	9476,756
10.4721318	29657,312	22	38	10553,169	10.0233829	48	9.9766171	9475,827
10.4717147	29628,842	21	39	10554,204	10.0234255	49	9.9765745	9474,897
10.4712979	29600,422	20	40	10555,241	10.0234682	50	9.9765318	9473,966
10.4708814	29572,050	19	41	10556,279	10.0235109	51	9.9764891	9473,035
10.4704653	29543,727	18	42	10557,318	10.0235536	52	9.9764464	9472,103
10.4700495	29515,453	17	43	10558,358	10.0235964	53	9.9764036	9471,170
10.4696339	29487,227	16	44	10559,399	10.0236392	54	9.9763608	9470,236
10.4692187	29459,050	15	45	10560,441	10.0236821	55	9.9763179	9469,301
10.4688039	29430,921	14	46	10561,485	10.0237250	56	9.9762750	9468,366
10.4683893	29402,843	13	47	10562,529	10.0237679	57	9.9762321	9467,430
10.4679750	29374,807	12	48	10563,575	10.0238109	58	9.9761891	9466,493
10.4675611	29346,822	11	49	10564,621	10.0238539	59	9.9761461	9465,555
10.4671474	29318,885	10	50	10565,669	10.0238970	60	9.9761030	9464,616
10.4667341	29290,995	9	51	10566,718	10.0239401	1	9.9760599	9463,677
10.4663211	29263,152	8	52	10567,768	10.0239832	2	9.9760167	9462,736
10.4659084	29235,358	7	53	10568,819	10.0240264	3	9.9759736	9461,795
10.4654960	29207,610	6	54	10569,871	10.0240697	4	9.9759303	9460,854
10.4650831	29179,909	5	55	10570,924	10.0241130	5	9.9758870	9459,911
10.4646722	29152,256	4	56	10571,978	10.0241563	6	9.9758437	9458,968
10.4642607	29124,649	3	57	10573,034	10.0241996	7	9.9758004	9458,023
10.4638495	29097,089	2	58	10574,090	10.0242430	8	9.9757570	9457,078
10.4634387	29069,576	1	59	10575,148	10.0242865	9	9.9757135	9456,132
10.4630281	29042,109	0	60	10576,207	10.0243299	10	9.9756701	9455,186
Diff	L. Tang.	N. Tan.	M	Co-secants		D	L. Sine	N. Sine

19 Degrees

M	N. Sine	L. Sine	Diff	Co-secants	M	N. Tan.	L. Tan.	Diff	
0	3255,682	9-5126419	366	10-873581	30715,535	60	3443,276	9-5369719	102
1	3258,432	9-5130086	366	10-8269914	30689,610	59	3446,530	9-5373821	109
2	3261,182	9-5133750	366	10-8266250	30663,731	58	3449,785	9-5377926	109
3	3263,932	9-5137410	365	10-8262590	30637,898	57	3453,040	9-5382017	109
4	3266,681	9-5141067	365	10-8258933	30612,111	56	3456,296	9-5386110	109
5	3269,430	9-5144721	365	10-8255279	30586,370	55	3459,553	9-5390200	108
6	3272,179	9-5148371	364	10-8251625	30560,673	54	3462,810	9-5394287	108
7	3274,928	9-5152017	364	10-8247983	30535,026	53	3466,068	9-5398371	108
8	3277,676	9-5155660	364	10-8244340	30509,423	52	3469,327	9-5402455	107
9	3280,424	9-5159309	363	10-8240700	30483,864	51	3472,586	9-5406531	107
10	3283,172	9-5162936	363	10-8237064	30458,352	50	3475,846	9-5410608	107
11	3285,919	9-5166569	362	10-8233431	30432,884	49	3479,107	9-5414678	106
12	3288,666	9-5170198	362	10-8229802	30407,462	48	3482,368	9-5418747	106
13	3291,413	9-5173824	362	10-8226176	30382,084	47	3485,630	9-5422815	105
14	3294,160	9-5177447	361	10-8222553	30356,752	46	3488,893	9-5426881	105
15	3296,906	9-5181066	361	10-8218934	30331,464	45	3492,156	9-5430937	105
16	3299,653	9-5184682	361	10-8215318	30306,221	44	3495,420	9-5434994	104
17	3302,398	9-5188295	360	10-8211705	30281,023	43	3498,685	9-5439048	104
18	3305,144	9-5191904	360	10-8208096	30255,868	42	3501,950	9-5443100	103
19	3307,889	9-5195510	360	10-8204490	30230,759	41	3505,216	9-5447148	103
20	3310,634	9-5199112	359	10-8200888	30205,693	40	3508,483	9-5451193	102
21	3313,379	9-5202711	359	10-8197289	30180,672	39	3511,750	9-5455236	102
22	3316,123	9-5206307	359	10-8193693	30155,694	38	3515,018	9-5459276	101
23	3318,867	9-5209909	358	10-8190101	30130,760	37	3518,287	9-5463312	101
24	3321,611	9-5213488	358	10-8186512	30105,870	36	3521,556	9-5467346	101
25	3324,355	9-5217074	358	10-8182926	30081,024	35	3524,826	9-5471377	100
26	3327,098	9-5220656	357	10-8179344	30056,221	34	3528,096	9-5475405	100
27	3329,841	9-5224235	357	10-8175765	30031,462	33	3531,368	9-5479435	100
28	3332,584	9-5227811	357	10-8172189	30006,746	32	3534,640	9-5483462	99
29	3335,326	9-5231383	357	10-8168617	29982,073	31	3537,912	9-5487471	99
30	3338,069	9-5234953	356	10-8165047	29957,443	30	3541,186	9-5491487	99
31	3340,810	9-5238518	356	10-8161482	29932,856	29	3544,460	9-5495500	98
32	3343,552	9-5242081	355	10-8157919	29908,312	28	3547,734	9-5499511	98
33	3346,293	9-5245640	355	10-8154360	29883,811	27	3551,010	9-5503519	98
34	3349,034	9-5249196	355	10-8150804	29859,352	26	3554,286	9-5507525	97
35	3351,775	9-5252749	354	10-8147251	29834,936	25	3557,562	9-5511525	97
36	3354,516	9-5256298	354	10-8143702	29810,563	24	3560,840	9-5515524	97
37	3357,256	9-5259844	354	10-8140156	29786,231	23	3564,118	9-5519521	96
38	3359,996	9-5263387	353	10-8136613	29761,942	22	3567,397	9-5523514	96
39	3362,735	9-5266927	353	10-8133073	29737,695	21	3570,676	9-5527504	96
40	3365,475	9-5270463	353	10-8129537	29713,490	20	3573,956	9-5531492	95
41	3368,214	9-5273997	352	10-8126003	29689,327	19	3577,237	9-5535477	95
42	3370,953	9-5277526	352	10-8122474	29665,205	18	3580,518	9-5539456	95
43	3373,691	9-5281053	352	10-8118947	29641,125	17	3583,801	9-5543431	94
44	3376,429	9-5284577	352	10-8115423	29617,087	16	3587,083	9-5547411	94
45	3379,167	9-5288097	351	10-8111903	29593,090	15	3590,367	9-5551388	94
46	3381,905	9-5291614	351	10-8108386	29569,135	14	3593,651	9-5555359	93
47	3384,642	9-5295128	351	10-8104872	29545,221	13	3596,936	9-5559327	93
48	3387,379	9-5298638	350	10-8101362	29521,348	12	3600,222	9-5563292	93
49	3390,116	9-5302146	350	10-8097854	29497,516	11	3603,508	9-5567255	92
50	3392,852	9-5305650	350	10-8094350	29473,725	10	3606,795	9-5571214	92
51	3395,589	9-5309151	349	10-8090849	29449,975	9	3610,082	9-5575171	92
52	3398,325	9-5312649	349	10-8087351	29426,265	8	3613,371	9-5579125	91
53	3401,060	9-5316143	349	10-8083857	29402,597	7	3616,660	9-5583077	91
54	3403,796	9-5319635	348	10-8080365	29378,968	6	3619,949	9-5587025	91
55	3406,531	9-5323123	348	10-8076877	29355,380	5	3623,240	9-5590971	90
56	3409,265	9-5326608	348	10-8073392	29331,833	4	3626,531	9-5594914	90
57	3412,000	9-5330090	347	10-8069910	29308,326	3	3629,823	9-5598854	90
58	3414,734	9-5333569	347	10-8066431	29284,858	2	3633,115	9-5602792	89
59	3417,468	9-5337044	347	10-8062956	29261,431	1	3636,408	9-5606727	89
60	3420,201	9-5340517	347	10-8059483	29238,044	0	3639,702	9-5610659	89
Co-fines				L. Sec.	N. Sec.	M	Co-tangents		Diff

# 19 Degrees

Diff.	Co-tangent		M	N. Sec.	L. Sec.	D	Co-fines		
	10.4630281	29042,109	60	0	10576,207	10.0243299	0.9756701	9455,186	60
4102	10.4626179	29041,688	59	1	10577,267	10.0243735	0.9756265	9454,238	59
4099	10.4622080	28987,314	58	2	10578,328	10.0244170	0.9755830	9453,290	58
4097	10.4617983	28959,986	57	3	10579,390	10.0244606	0.9755394	9452,341	57
4093	10.4613890	28932,704	56	4	10580,453	10.0245043	0.9754957	9451,391	56
4090	10.4609800	28905,467	55	5	10581,517	10.0245479	0.9754521	9450,441	55
4087	10.4605713	28878,277	54	6	10582,583	10.0245917	0.9754083	9449,489	54
4084	10.4601629	28851,132	53	7	10583,649	10.0246354	0.9753646	9448,537	53
4082	10.4597547	28824,033	52	8	10584,717	10.0246792	0.9753208	9447,584	52
4078	10.4593469	28796,979	51	9	10585,786	10.0247231	0.9752769	9446,630	51
4075	10.4589394	28769,970	50	10	10586,855	10.0247670	0.9752330	9445,675	50
4072	10.4585322	28743,007	49	11	10587,926	10.0248109	0.9751891	9444,720	49
4069	10.4581253	28716,088	48	12	10588,999	10.0248549	0.9751451	9443,764	48
4066	10.4577187	28689,215	47	13	10590,072	10.0248989	0.9751011	9442,807	47
4064	10.4573123	28662,386	46	14	10591,146	10.0249430	0.9750570	9441,849	46
4060	10.4569063	28635,602	45	15	10592,221	10.0249871	0.9750129	9440,890	45
4057	10.4565006	28608,863	44	16	10593,298	10.0250312	0.9749688	9439,931	44
4054	10.4560952	28582,168	43	17	10594,376	10.0250754	0.9749246	9438,971	43
4052	10.4556900	28555,517	42	18	10595,454	10.0251196	0.9748804	9438,010	42
4048	10.4552852	28528,891	41	19	10596,534	10.0251639	0.9748361	9437,048	41
4045	10.4548807	28502,349	40	20	10597,615	10.0252082	0.9747918	9436,085	40
4043	10.4544764	28475,831	39	21	10598,697	10.0252525	0.9747475	9435,122	39
4040	10.4540724	28449,336	38	22	10599,781	10.0252969	0.9747031	9434,157	38
4036	10.4536688	28422,926	37	23	10600,865	10.0253413	0.9746587	9433,192	37
4034	10.4532654	28396,539	36	24	10601,951	10.0253858	0.9746142	9432,227	36
4031	10.4528623	28370,196	35	25	10603,037	10.0254303	0.9745697	9431,260	35
4028	10.4524595	28343,896	34	26	10604,125	10.0254748	0.9745252	9430,293	34
4025	10.4520570	28317,639	33	27	10605,214	10.0255194	0.9744806	9429,324	33
4019	10.4516548	28291,426	32	28	10606,304	10.0255641	0.9744359	9428,355	32
4016	10.4512529	28265,256	31	29	10607,395	10.0256087	0.9743913	9427,386	31
4013	10.4508513	28239,129	30	30	10608,487	10.0256534	0.9743466	9426,415	30
4011	10.4504500	28213,045	29	31	10609,580	10.0256982	0.9743018	9425,444	29
4008	10.4500489	28187,003	28	32	10610,675	10.0257430	0.9742570	9424,471	28
4004	10.4496481	28161,004	27	33	10611,770	10.0257878	0.9742122	9423,498	27
4002	10.4492477	28135,048	26	34	10612,867	10.0258327	0.9741673	9422,525	26
3999	10.4488478	28109,134	25	35	10613,965	10.0258776	0.9741224	9421,550	25
3997	10.4484476	28083,263	24	36	10615,064	10.0259226	0.9740774	9420,575	24
3993	10.4480479	28057,433	23	37	10616,164	10.0259676	0.9740324	9419,598	23
3990	10.4476486	28031,646	22	38	10617,265	10.0260127	0.9739873	9418,621	22
3988	10.4472496	28005,901	21	39	10618,367	10.0260578	0.9739422	9417,644	21
3985	10.4468508	27980,198	20	40	10619,471	10.0261029	0.9738971	9416,665	20
3982	10.4464523	27954,537	19	41	10620,575	10.0261481	0.9738519	9415,686	19
3979	10.4460541	27928,917	18	42	10621,681	10.0261933	0.9738067	9414,705	18
3977	10.4456562	27903,339	17	43	10622,788	10.0262385	0.9737615	9413,724	17
3973	10.4452585	27877,802	16	44	10623,896	10.0262838	0.9737162	9412,743	16
3971	10.4448612	27852,307	15	45	10625,005	10.0263291	0.9736709	9411,760	15
3968	10.4444641	27826,853	14	46	10626,115	10.0263745	0.9736255	9410,777	14
3965	10.4440673	27801,440	13	47	10627,227	10.0264199	0.9735801	9409,793	13
3963	10.4436708	27776,069	12	48	10628,339	10.0264654	0.9735346	9408,808	12
3959	10.4432745	27750,739	11	49	10629,453	10.0265109	0.9734891	9407,822	11
3957	10.4428786	27725,448	10	50	10630,568	10.0265565	0.9734435	9406,835	10
3954	10.4424829	27700,199	9	51	10631,684	10.0266020	0.9733980	9405,848	9
3952	10.4420875	27674,990	8	52	10632,801	10.0266477	0.9733523	9404,860	8
3948	10.4416923	27649,822	7	53	10633,919	10.0266933	0.9733067	9403,871	7
3946	10.4412975	27624,695	6	54	10635,038	10.0267390	0.9732610	9402,881	6
3943	10.4409023	27599,608	5	55	10636,158	10.0267848	0.9732152	9401,891	5
3940	10.4405080	27574,561	4	56	10637,280	10.0268306	0.9731694	9400,899	4
3938	10.4401140	27549,554	3	57	10638,403	10.0268764	0.9731236	9399,907	3
3935	10.4397208	27524,588	2	58	10639,527	10.0269223	0.9730777	9398,914	2
3932	10.4393273	27499,661	1	59	10640,652	10.0269682	0.9730318	9397,921	1
Diff.	10.4389341	27474,774	0	60	10641,778	10.0270142	0.9729858	9396,926	0
	L. Tang.	N. Tan.	M		Co-secants	D	L. Sine	N. Sine	M

70 Degrees

# 20 Degrees

N.	Sine	L. Sine	Diff.	Co-secants		M.	N. Tan.	L. Tan.	Diff.
0	3420,201	9.5340517		10.4052483	29238,044	60	3639,702	9.5610659	
1	3422,935	9.5343980	3469	10.4056014	29214,697	59	3642,997	9.5614588	3925
2	3425,668	9.5347452	3465	10.4059545	29191,389	58	3646,292	9.5618515	3927
3	3428,400	9.5350915	3460	10.4063076	29168,121	57	3649,588	9.5622439	3929
4	3431,133	9.5354378	3457	10.4066607	29144,892	56	3652,885	9.5626366	3931
5	3433,865	9.5357841	3454	10.4070138	29121,703	55	3656,182	9.5630278	3918
6	3436,597	9.5361304	3451	10.4073669	29098,553	54	3659,480	9.5634194	3916
7	3439,329	9.5364767	3447	10.4077200	29075,443	53	3662,779	9.5638107	3913
8	3442,060	9.5368230	3445	10.4080731	29052,372	52	3666,079	9.5642018	3911
9	3444,791	9.5371693	3441	10.4084262	29029,339	51	3669,379	9.5645925	3907
10	3447,521	9.5375156	3438	10.4087793	29006,346	50	3672,680	9.5649831	3906
11	3450,252	9.5378619	3435	10.4091324	28983,391	49	3675,981	9.5653733	3902
12	3452,982	9.5382082	3432	10.4094855	28960,475	48	3679,284	9.5657633	3900
13	3455,712	9.5385545	3429	10.4098386	28937,598	47	3682,587	9.5661530	3897
14	3458,441	9.5389008	3426	10.4101917	28914,760	46	3685,890	9.5665424	3894
15	3461,171	9.5392471	3423	10.4105448	28891,960	45	3689,195	9.5669316	3892
16	3463,900	9.5395934	3420	10.4108979	28869,198	44	3692,500	9.5673205	3889
17	3466,628	9.5399397	3416	10.4112510	28846,474	43	3695,806	9.5677091	3886
18	3469,357	9.5402860	3414	10.4116041	28823,789	42	3699,112	9.5680975	3884
19	3472,085	9.5406323	3411	10.4119572	28801,142	41	3702,420	9.5684856	3881
20	3474,812	9.5409786	3407	10.4123103	28778,532	40	3705,728	9.5688735	3879
21	3477,540	9.5413249	3405	10.4126634	28755,961	39	3709,036	9.5692611	3876
22	3480,267	9.5416712	3401	10.4130165	28733,428	38	3712,344	9.5696484	3873
23	3482,994	9.5420175	3399	10.4133696	28710,932	37	3715,655	9.5700355	3871
24	3485,720	9.5423638	3395	10.4137227	28688,474	36	3718,967	9.5704223	3868
25	3488,447	9.5427101	3392	10.4140758	28666,053	35	3722,278	9.5708088	3865
26	3491,173	9.5429713	3390	10.4144289	28643,670	34	3725,590	9.5711951	3863
27	3493,900	9.5433276	3386	10.4147820	28621,324	33	3728,903	9.5715811	3860
28	3496,626	9.5436839	3384	10.4151351	28599,015	32	3732,217	9.5719669	3858
29	3499,352	9.5439873	3380	10.4154882	28576,744	31	3735,532	9.5723524	3855
30	3502,077	9.5443336	3377	10.4158413	28554,510	30	3738,847	9.5727377	3853
31	3504,802	9.5446799	3375	10.4161944	28532,312	29	3742,163	9.5731227	3850
32	3507,527	9.5450262	3371	10.4165475	28510,152	28	3745,479	9.5735074	3847
33	3510,250	9.5453725	3369	10.4169006	28488,028	27	3748,797	9.5738919	3845
34	3512,973	9.5457188	3365	10.4172537	28465,941	26	3752,115	9.5742761	3842
35	3515,696	9.5460651	3362	10.4176068	28443,891	25	3755,433	9.5746601	3840
36	3518,419	9.5464114	3360	10.4179599	28421,877	24	3758,753	9.5750438	3837
37	3521,142	9.5467577	3357	10.4183130	28399,899	23	3762,073	9.5754272	3834
38	3523,865	9.5471040	3353	10.4186661	28377,958	22	3765,394	9.5758104	3832
39	3526,588	9.5474503	3351	10.4190192	28356,054	21	3768,716	9.5761934	3830
40	3529,311	9.5477966	3347	10.4193723	28334,185	20	3772,038	9.5765761	3827
41	3532,034	9.5481429	3345	10.4197254	28312,353	19	3775,361	9.5769585	3824
42	3534,757	9.5484892	3342	10.4200785	28290,556	18	3778,685	9.5773407	3822
43	3537,480	9.5488355	3339	10.4204316	28268,796	17	3782,010	9.5777226	3819
44	3540,203	9.5491818	3336	10.4207847	28247,071	16	3785,335	9.5781043	3817
45	3542,926	9.5495281	3332	10.4211378	28225,382	15	3788,661	9.5784858	3815
46	3545,649	9.5498744	3330	10.4214909	28203,729	14	3791,988	9.5788669	3811
47	3548,372	9.5502207	3327	10.4218440	28182,111	13	3795,313	9.5792479	3810
48	3551,095	9.5505670	3324	10.4221971	28160,529	12	3798,644	9.5796288	3807
49	3553,818	9.5509133	3321	10.4225502	28138,982	11	3801,973	9.5800090	3804
50	3556,541	9.5512596	3319	10.4229033	28117,471	10	3805,302	9.5803892	3802
51	3559,264	9.5516059	3315	10.4232564	28095,995	9	3808,633	9.5807691	3799
52	3561,987	9.5519522	3313	10.4236095	28074,554	8	3811,964	9.5811488	3797
53	3564,710	9.5522985	3310	10.4239626	28053,148	7	3815,296	9.5815282	3794
54	3567,433	9.5526448	3307	10.4243157	28031,777	6	3818,629	9.5819074	3792
55	3570,156	9.5529911	3304	10.4246688	28010,441	5	3821,962	9.5822864	3790
56	3572,879	9.5533374	3301	10.4250219	27989,140	4	3825,296	9.5826651	3787
57	3575,602	9.5536837	3298	10.4253750	27967,873	3	3828,631	9.5830435	3784
58	3578,325	9.5540300	3295	10.4257281	27946,641	2	3831,967	9.5834217	3782
59	3581,048	9.5543763	3293	10.4260812	27925,444	1	3835,303	9.5837997	3780
60	3583,771	9.5547226	3290	10.4264343	27904,281	0	3838,640	9.5841774	3777
Co-fines				L. Sec.	N. Sec.	M.	Co-tangents		

# 20 Degrees

Diff	Co-tangents	M	N. Sec.	L. Sec.	D	Co-fines	M
3929	10.4389341	27474.774	60	0	10.641.778	10.0270142	460
3927	10.4385412	27449.927	59	1	10.642.905	10.0270602	461
3924	10.4381485	27425.120	58	2	10.644.033	10.0271062	462
3921	10.4377561	27400.352	57	3	10.645.163	10.0271523	463
3918	10.4373640	27375.623	56	4	10.646.294	10.0271984	464
3916	10.4369722	27350.934	55	5	10.647.425	10.0272446	465
3913	10.4365806	27326.284	54	6	10.648.558	10.0272908	466
3911	10.4361893	27301.674	53	7	10.649.693	10.0273371	467
3907	10.4357982	27277.102	52	8	10.650.828	10.0273834	468
3906	10.4354075	27252.569	51	9	10.651.964	10.0274297	469
3902	10.4350169	27228.076	50	10	10.653.102	10.0274761	470
3900	10.4346267	27203.620	49	11	10.654.240	10.0275225	471
3897	10.4342367	27179.204	48	12	10.655.380	10.0275690	472
3894	10.4338470	27154.826	47	13	10.656.521	10.0276155	473
3892	10.4334576	27130.487	46	14	10.657.663	10.0276620	474
3889	10.4330684	27106.186	45	15	10.658.807	10.0277086	475
3886	10.4326795	27081.923	44	16	10.659.951	10.0277552	476
3884	10.4322909	27057.699	43	17	10.661.097	10.0278019	477
3881	10.4319025	27033.513	42	18	10.662.243	10.0278486	478
3879	10.4315144	27009.364	41	19	10.663.391	10.0278953	479
3876	10.4311265	26985.254	40	20	10.664.540	10.0279421	480
3873	10.4307389	26961.181	39	21	10.665.690	10.0279890	481
3871	10.4303516	26937.147	38	22	10.666.842	10.0280358	482
3868	10.4299645	26913.149	37	23	10.667.994	10.0280828	483
3865	10.4295777	26889.100	36	24	10.669.148	10.0281297	484
3863	10.4291912	26865.267	35	25	10.670.302	10.0281767	485
3860	10.4288049	26841.383	34	26	10.671.458	10.0282238	486
3858	10.4284189	26817.535	33	27	10.672.615	10.0282709	487
3855	10.4280331	26793.725	32	28	10.673.774	10.0283180	488
3853	10.4276476	26769.951	31	29	10.674.933	10.0283652	489
3850	10.4272623	26746.215	30	30	10.676.094	10.0284124	490
3847	10.4268773	26722.510	29	31	10.677.255	10.0284596	491
3845	10.4264926	26698.853	28	32	10.678.418	10.0285069	492
3842	10.4261081	26675.227	27	33	10.679.582	10.0285543	493
3840	10.4257239	26651.638	26	34	10.680.747	10.0286016	494
3837	10.4253399	26628.085	25	35	10.681.914	10.0286491	495
3834	10.4249562	26604.569	24	36	10.683.081	10.0286965	496
3832	10.4245728	26581.089	23	37	10.684.250	10.0287440	497
3830	10.4241896	26557.645	22	38	10.685.420	10.0287916	498
3827	10.4238066	26534.238	21	39	10.686.591	10.0288392	499
3824	10.4234239	26510.867	20	40	10.687.763	10.0288868	500
3822	10.4230415	26487.531	19	41	10.688.936	10.0289345	501
3819	10.4226593	26464.232	18	42	10.690.110	10.0289822	502
3817	10.4222774	26440.969	17	43	10.691.286	10.0290299	503
3815	10.4218957	26417.741	16	44	10.692.463	10.0290777	504
3811	10.4215142	26394.549	15	45	10.693.641	10.0291256	505
3810	10.4211331	26371.392	14	46	10.694.820	10.0291735	506
3807	10.4207521	26348.271	13	47	10.696.000	10.0292214	507
3804	10.4203714	26325.186	12	48	10.697.182	10.0292694	508
3802	10.4199910	26302.136	11	49	10.698.364	10.0293174	509
3799	10.4196108	26279.121	10	50	10.699.548	10.0293654	510
3797	10.4192309	26256.141	9	51	10.700.733	10.0294135	511
3794	10.4188512	26233.196	8	52	10.701.919	10.0294617	512
3792	10.4184718	26210.286	7	53	10.703.106	10.0295098	513
3790	10.4180926	26187.411	6	54	10.704.295	10.0295581	514
3787	10.4177136	26164.571	5	55	10.705.484	10.0296063	515
3784	10.4173349	26141.766	4	56	10.706.675	10.0296546	516
3782	10.4169565	26118.995	3	57	10.707.867	10.0297030	517
3780	10.4165783	26096.259	2	58	10.709.060	10.0297514	518
3777	10.4162003	26073.558	1	59	10.710.254	10.0297998	519
Diff	10.4158226	26050.891	0	60	10.711.450	10.0298483	520
	L. Tang.	N. Tan.	M.		Co-Secants		
						L. Sine	N. Sine M.

69 Degrees

Gg2

# 21 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants			M. N. Tan.	L. Tan.	Diff.
0 3583,675	9.5543292	3289	10.4456708	27904,281	60	0 3883,640	9.5841774	3775
1 3586,395	9.5546581	3287	10.4453415	27883,153	59	1 3841,978	9.5845545	3772
2 3589,110	9.5549868	3284	10.4450132	27862,059	58	2 3845,317	9.5849321	3770
3 3591,825	9.5553152	3281	10.4446848	27840,999	57	3 3848,656	9.5853091	3768
4 3594,544	9.5556433	3278	10.4443567	27819,973	56	4 3851,996	9.5856859	3765
5 3597,254	9.5559711	3276	10.4440289	27798,982	55	5 3855,337	9.5860624	3762
6 3599,968	9.5562987	3272	10.4437013	27778,024	54	6 3858,679	9.5864380	3761
7 3602,682	9.5566259	3270	10.4433741	27757,100	53	7 3862,021	9.5868147	3757
8 3605,395	9.5569529	3267	10.4430471	27736,211	52	8 3865,364	9.5871904	3756
9 3608,108	9.5572796	3264	10.4427204	27715,355	51	9 3868,708	9.5875660	3753
10 3610,821	9.5576060	3261	10.4423940	27694,532	50	10 3872,053	9.5879413	3750
11 3613,534	9.5579321	3258	10.4420679	27673,744	49	11 3875,398	9.5883163	3745
12 3616,246	9.5582579	3256	10.4417421	27652,988	48	12 3878,744	9.5886912	3745
13 3618,958	9.5585835	3253	10.4414165	27632,267	47	13 3882,091	9.5890657	3744
14 3621,669	9.5589088	3250	10.4410912	27611,578	46	14 3885,439	9.5894401	3741
15 3624,380	9.5592338	3247	10.4407662	27590,923	45	15 3888,787	9.5898142	3739
16 3627,091	9.5595585	3244	10.4404415	27570,301	44	16 3892,136	9.5901881	3736
17 3629,802	9.5598829	3242	10.4401171	27549,712	43	17 3895,486	9.5905617	3734
18 3632,512	9.5602071	3239	10.4397929	27529,157	42	18 3898,837	9.5909351	3731
19 3635,222	9.5605310	3236	10.4394690	27508,634	41	19 3902,189	9.5913082	3730
20 3637,932	9.5608546	3233	10.4391454	27488,144	40	20 3905,541	9.5916812	3727
21 3640,641	9.5611779	3231	10.4388221	27467,687	39	21 3908,894	9.5920559	3724
22 3643,351	9.5615010	3227	10.4384990	27447,263	38	22 3912,247	9.5924265	3722
23 3646,059	9.5618237	3225	10.4381763	27426,871	37	23 3915,602	9.5927985	3720
24 3648,768	9.5621462	3223	10.4378538	27406,512	36	24 3918,957	9.5931705	3718
25 3651,476	9.5624685	3219	10.4375315	27386,186	35	25 3922,313	9.5935423	3715
26 3654,184	9.5627904	3217	10.4372096	27365,892	34	26 3925,670	9.5939138	3713
27 3656,891	9.5631121	3214	10.4368879	27345,630	33	27 3929,027	9.5942851	3710
28 3659,599	9.5634335	3211	10.4365665	27325,400	32	28 3932,386	9.5946566	3708
29 3662,306	9.5637546	3208	10.4362454	27305,203	31	29 3935,745	9.5950269	3706
30 3665,012	9.5640754	3206	10.4359246	27285,038	30	30 3939,105	9.5953975	3704
31 3667,719	9.5643960	3203	10.4356040	27264,905	29	31 3942,465	9.5957679	3701
32 3670,425	9.5647163	3200	10.4352837	27244,804	28	32 3945,827	9.5961380	3699
33 3673,130	9.5650363	3198	10.4349637	27224,735	27	33 3949,189	9.5965085	3697
34 3675,836	9.5653561	3195	10.4346439	27204,698	26	34 3952,552	9.5968779	3694
35 3678,541	9.5656756	3192	10.4343244	27184,693	25	35 3955,916	9.5972474	3692
36 3681,246	9.5659948	3189	10.4340052	27164,719	24	36 3959,280	9.5976162	3690
37 3683,950	9.5663137	3187	10.4336863	27144,777	23	37 3962,645	9.5979852	3688
38 3686,654	9.5666324	3184	10.4333676	27124,866	22	38 3966,011	9.5983540	3685
39 3689,358	9.5669508	3181	10.4330492	27104,987	21	39 3969,378	9.5987225	3683
40 3692,061	9.5672689	3179	10.4327311	27085,139	20	40 3972,746	9.5990908	3680
41 3694,765	9.5675868	3176	10.4324132	27065,323	19	41 3976,114	9.5994588	3679
42 3697,468	9.5679044	3173	10.4320956	27045,538	18	42 3979,483	9.5998267	3676
43 3700,170	9.5682217	3170	10.4317783	27025,784	17	43 3982,853	9.6001943	3674
44 3702,872	9.5685387	3168	10.4314613	27006,061	16	44 3986,224	9.6005617	3671
45 3705,574	9.5688555	3166	10.4311445	26986,370	15	45 3989,595	9.6009289	3669
46 3708,276	9.5691721	3162	10.4308279	26966,709	14	46 3992,968	9.6012958	3667
47 3710,977	9.5694883	3160	10.4305117	26947,079	13	47 3996,341	9.6016625	3665
48 3713,678	9.5698043	3157	10.4301957	26927,480	12	48 3999,715	9.6020290	3663
49 3716,379	9.5701200	3155	10.4298800	26907,912	11	49 4003,089	9.6023953	3660
50 3719,079	9.5704355	3151	10.4295645	26888,374	10	50 4006,465	9.6027613	3658
51 3721,780	9.5707500	3150	10.4292494	26868,867	9	51 4009,841	9.6031271	3656
52 3724,479	9.5710656	3146	10.4289344	26849,391	8	52 4013,218	9.6034927	3654
53 3727,179	9.5713802	3144	10.4286198	26829,945	7	53 4016,596	9.6038581	3652
54 3729,878	9.5716946	3141	10.4283054	26810,530	6	54 4019,974	9.6042233	3649
55 3732,577	9.5720087	3139	10.4279913	26791,145	5	55 4023,354	9.6045882	3647
56 3735,275	9.5723226	3136	10.4276774	26771,790	4	56 4026,734	9.6049529	3645
57 3737,973	9.5726362	3133	10.4273638	26752,465	3	57 4030,115	9.6053174	3643
58 3740,671	9.5729495	3131	10.4270505	26733,171	2	58 4033,496	9.6056817	3641
59 3743,369	9.5732626	3128	10.4267374	26713,906	1	59 4036,875	9.6060457	3639
60 3746,066	9.5735754	3128	10.4264246	26694,672	0	60 4040,262	9.6064096	3637
Co-fines		Diff.	L. Sec.	N. Sec.	M	Co-rangents		Diff.

# 21 Degrees

Diff.	Co-tangents			M.	N. Sec.	L. Sec.	D.	Co-sines		
	10.4158226	26050,891	60	0	10711,450	10.0298483		9.9701517	9335,804	60
3775	10.4154451	26028,258	59	1	10712,647	10.0298968	485	9.9701032	9334,761	59
3772	10.4150679	26005,659	58	2	10713,844	10.0299453	486	9.9700547	9333,718	58
3770	10.4146909	25983,095	57	3	10715,043	10.0299939	487	9.9700061	9332,673	57
3768	10.4143141	25960,564	56	4	10716,244	10.0300426	487	9.9699574	9331,628	56
3765	10.4139374	25938,068	55	5	10717,445	10.0300913	487	9.9699087	9330,582	55
3762	10.4135614	25915,606	54	6	10718,647	10.0301400	487	9.9698600	9329,535	54
3761	10.4131853	25893,177	53	7	10719,851	10.0301888	488	9.9698112	9328,488	53
3757	10.4128096	25870,782	52	8	10721,056	10.0302376	488	9.9697624	9327,439	52
3756	10.4124340	25848,421	51	9	10722,262	10.0302864	488	9.9697136	9326,390	51
3753	10.4120587	25826,094	50	10	10723,469	10.0303353	489	9.9696647	9325,340	50
3750	10.4116837	25803,800	49	11	10724,678	10.0303842	489	9.9696158	9324,290	49
3749	10.4113088	25781,539	48	12	10725,887	10.0304332	490	9.9695668	9323,238	48
3745	10.4109343	25759,312	47	13	10727,098	10.0304823	491	9.9695177	9322,186	47
3744	10.4105599	25737,118	46	14	10728,310	10.0305313	491	9.9694687	9321,133	46
3741	10.4101858	25714,957	45	15	10729,523	10.0305804	492	9.9694196	9320,079	45
3739	10.4098119	25692,830	44	16	10730,737	10.0306295	492	9.9693704	9319,024	44
3736	10.4094381	25670,735	43	17	10731,953	10.0306788	492	9.9693212	9317,969	43
3734	10.4090649	25648,674	42	18	10733,170	10.0307280	492	9.9692720	9316,912	42
3731	10.4086918	25626,645	41	19	10734,388	10.0307773	493	9.9692227	9315,855	41
3730	10.4083188	25604,649	40	20	10735,607	10.0308266	493	9.9691734	9314,797	40
3727	10.4079461	25582,686	39	21	10736,827	10.0308759	493	9.9691241	9313,739	39
3724	10.4075737	25560,756	38	22	10738,048	10.0309254	495	9.9690746	9312,679	38
3722	10.4072015	25538,858	37	23	10739,271	10.0309748	494	9.9690252	9311,619	37
3720	10.4068295	25516,992	36	24	10740,495	10.0310243	495	9.9689757	9310,558	36
3718	10.4064577	25495,160	35	25	10741,720	10.0310738	495	9.9689262	9309,496	35
3715	10.4060862	25473,359	34	26	10742,946	10.0311234	496	9.9688766	9308,434	34
3713	10.4057149	25451,591	33	27	10744,173	10.0311730	496	9.9688270	9307,370	33
3710	10.4053439	25429,855	32	28	10745,402	10.0312227	497	9.9687773	9306,306	32
3708	10.4049731	25408,151	31	29	10746,631	10.0312724	497	9.9687276	9305,241	31
3706	10.4046025	25386,479	30	30	10747,862	10.0313221	497	9.9686779	9304,176	30
3704	10.4042321	25364,839	29	31	10749,095	10.0313719	498	9.9686281	9303,109	29
3701	10.4038620	25343,231	28	32	10750,328	10.0314217	498	9.9685783	9302,042	28
3699	10.4034921	25321,655	27	33	10751,562	10.0314716	499	9.9685284	9300,974	27
3697	10.4031224	25300,111	26	34	10752,798	10.0315215	499	9.9684785	9299,905	26
3694	10.4027530	25278,598	25	35	10754,035	10.0315714	500	9.9684286	9298,835	25
3692	10.4023838	25257,117	24	36	10755,273	10.0316214	500	9.9683786	9297,765	24
3690	10.4020148	25235,667	23	37	10756,512	10.0316715	501	9.9683285	9296,694	23
3688	10.4016460	25214,249	22	38	10757,753	10.0317216	501	9.9682784	9295,622	22
3685	10.4012775	25192,863	21	39	10758,995	10.0317717	501	9.9682283	9294,549	21
3683	10.4009092	25171,507	20	40	10760,237	10.0318219	502	9.9681781	9293,475	20
3680	10.4005412	25150,183	19	41	10761,481	10.0318721	502	9.9681279	9292,401	19
3679	10.4001733	25128,890	18	42	10762,727	10.0319223	502	9.9680777	9291,326	18
3676	10.3998057	25107,629	17	43	10763,973	10.0319726	503	9.9680274	9290,250	17
3674	10.3994383	25086,398	16	44	10765,221	10.0320229	503	9.9679771	9289,173	16
3672	10.3990711	25065,198	15	45	10766,470	10.0320733	504	9.9679267	9288,096	15
3669	10.3987042	25044,029	14	46	10767,720	10.0321237	504	9.9678763	9287,017	14
3667	10.3983375	25022,891	13	47	10768,971	10.0321742	505	9.9678258	9285,938	13
3665	10.3979710	25001,784	12	48	10770,224	10.0322247	505	9.9677753	9284,858	12
3663	10.3976047	24980,707	11	49	10771,477	10.0322753	506	9.9677247	9283,778	11
3660	10.3972387	24959,661	10	50	10772,732	10.0323259	506	9.9676741	9282,696	10
3658	10.3968729	24938,645	9	51	10773,988	10.0323765	506	9.9676235	9281,614	9
3656	10.3965073	24917,660	8	52	10775,246	10.0324272	507	9.9675728	9280,531	8
3654	10.3961419	24896,706	7	53	10776,504	10.0324779	507	9.9675221	9279,447	7
3652	10.3957767	24875,781	6	54	10777,764	10.0325287	508	9.9674713	9278,363	6
3649	10.3954118	24854,887	5	55	10779,025	10.0325795	508	9.9674205	9277,277	5
3647	10.3950471	24834,023	4	56	10780,287	10.0326303	508	9.9673697	9276,191	4
3645	10.3946826	24813,193	3	57	10781,550	10.0326812	509	9.9673188	9275,104	3
3643	10.3943183	24792,386	2	58	10782,815	10.0327321	510	9.9672679	9274,016	2
3640	10.3939543	24771,612	1	59	10784,080	10.0327831	510	9.9672169	9272,928	1
3639	10.3935904	24750,869	0	60	10785,347	10.0328341	510	9.9671659	9271,839	0
Diff.	L. Tang. N. Tan. M.			Co-secants			D.	L. Sine N. Sine M.		

# 68 Degrees

# 22 Degrees

M.	N. Sine	L. Sine	Diff.	Co-secants	M.	N. Tan.	L. Tan.	Diff.	
0	3746,066	9.5735754	3126	10.4264246	26694,672	60	4040,262	9.6064096	3636
1	3748,763	9.5738880	3123	10.4261120	26675,467	59	4043,646	9.6067732	3634
2	3751,459	9.5742003	3120	10.4257997	26656,292	58	4047,031	9.6071366	3631
3	3754,156	9.5745123	3117	10.4254877	26637,148	57	4050,417	9.6074997	3628
4	3756,852	9.5748240	3116	10.4251760	26618,033	56	4053,804	9.6078627	3627
5	3759,547	9.5751356	3112	10.4248644	26598,947	55	4057,191	9.6082254	3626
6	3762,243	9.5754468	3110	10.4245532	26579,891	54	4060,579	9.6085880	3623
7	3764,938	9.5757578	3107	10.4242422	26560,865	53	4063,968	9.6089503	3621
8	3767,632	9.5760685	3105	10.4239315	26541,868	52	4067,358	9.6093124	3618
9	3770,327	9.5763790	3102	10.4236210	26522,901	51	4070,748	9.6096742	3617
10	3773,021	9.5766892	3099	10.4233108	26503,962	50	4074,139	9.6100359	3614
11	3775,714	9.5769991	3097	10.4230009	26485,054	49	4077,531	9.6103973	3613
12	3778,408	9.5773088	3095	10.4226912	26466,174	48	4080,924	9.6107586	3610
13	3781,101	9.5776183	3092	10.4223817	26447,323	47	4084,318	9.6111196	3608
14	3783,794	9.5779275	3089	10.4220725	26428,502	46	4087,713	9.6114804	3605
15	3786,486	9.5782364	3086	10.4217636	26409,710	45	4091,108	9.6118409	3603
16	3789,178	9.5785450	3085	10.4214550	26390,946	44	4094,504	9.6122013	3602
17	3791,870	9.5788535	3081	10.4211465	26372,211	43	4097,901	9.6125615	3599
18	3794,562	9.5791616	3079	10.4208384	26353,506	42	4101,299	9.6129214	3598
19	3797,253	9.5794695	3077	10.4205305	26334,828	41	4104,697	9.6132812	3595
20	3799,944	9.5797772	3073	10.4202228	26316,180	40	4108,097	9.6136407	3593
21	3802,634	9.5800845	3072	10.4199153	26297,560	39	4111,497	9.6140000	3591
22	3805,324	9.5803917	3069	10.4196083	26278,969	38	4114,898	9.6143591	3589
23	3808,014	9.5806985	3066	10.4193014	26260,406	37	4118,300	9.6147180	3588
24	3810,704	9.5810052	3064	10.4189948	26241,872	36	4121,703	9.6150766	3585
25	3813,393	9.5813116	3061	10.4186884	26223,366	35	4125,106	9.6154351	3583
26	3816,082	9.5816177	3059	10.4183823	26204,888	34	4128,510	9.6157934	3580
27	3818,770	9.5819236	3056	10.4180764	26186,439	33	4131,915	9.6161514	3579
28	3821,459	9.5822292	3053	10.4177708	26168,018	32	4135,321	9.6165093	3577
29	3824,147	9.5825345	3052	10.4174655	26149,624	31	4138,728	9.6168669	3575
30	3826,834	9.5828397	3048	10.4171603	26131,259	30	4142,136	9.6172242	3572
31	3829,522	9.5831445	3046	10.4168555	26112,922	29	4145,544	9.6175815	3570
32	3832,209	9.5834491	3044	10.4165509	26094,613	28	4148,953	9.6179385	3568
33	3834,895	9.5837535	3041	10.4162465	26076,332	27	4152,363	9.6182953	3566
34	3837,582	9.5840576	3039	10.4159424	26058,078	26	4155,774	9.6186519	3564
35	3840,268	9.5843615	3036	10.4156385	26039,852	25	4159,186	9.6190087	3562
36	3842,953	9.5846651	3034	10.4153349	26021,654	24	4162,598	9.6193645	3560
37	3845,639	9.5849685	3031	10.4150315	26003,484	23	4166,012	9.6197200	3557
38	3848,324	9.5852716	3029	10.4147284	25985,341	22	4169,426	9.6200762	3556
39	3851,008	9.5855745	3026	10.4144255	25967,225	21	4172,841	9.6204318	3554
40	3853,693	9.5858771	3024	10.4141229	25949,137	20	4176,257	9.6207872	3551
41	3856,377	9.5861795	3021	10.4138205	25931,077	19	4179,673	9.6211423	3550
42	3859,060	9.5864816	3019	10.4135184	25913,043	18	4183,091	9.6214973	3547
43	3861,744	9.5867835	3016	10.4132165	25895,037	17	4186,509	9.6218520	3546
44	3864,427	9.5870851	3014	10.4129149	25877,058	16	4189,928	9.6222066	3543
45	3867,110	9.5873865	3011	10.4126135	25859,107	15	4193,348	9.6225609	3541
46	3869,792	9.5876876	3009	10.4123124	25841,182	14	4196,769	9.6229150	3540
47	3872,474	9.5879885	3007	10.4120115	25823,284	13	4199,190	9.6232690	3537
48	3875,156	9.5882892	3004	10.4117108	25805,414	12	4202,613	9.6236227	3536
49	3877,837	9.5885896	3001	10.4114104	25787,570	11	4206,036	9.6239763	3533
50	3880,518	9.5888897	3000	10.4111103	25769,753	10	4209,460	9.6243296	3531
51	3883,199	9.5891897	2996	10.4108103	25751,963	9	4212,885	9.6246827	3528
52	3885,880	9.5894893	2995	10.4105107	25734,199	8	4216,311	9.6250356	3526
53	3888,560	9.5897888	2992	10.4102112	25716,462	7	4219,738	9.6253884	3525
54	3891,240	9.5900880	2989	10.4099120	25698,752	6	4223,165	9.6257409	3523
55	3893,919	9.5903869	2987	10.4096131	25681,069	5	4226,594	9.6260932	3522
56	3896,598	9.5906856	2985	10.4093144	25663,412	4	4230,023	9.6264454	3519
57	3899,277	9.5909841	2982	10.4090159	25645,781	3	4233,453	9.6267975	3518
58	3901,955	9.5912823	2980	10.4087177	25628,176	2	4236,884	9.6271491	3515
59	3904,633	9.5915803	2977	10.4084197	25610,599	1	4240,316	9.6275000	3513
60	3907,311	9.5918780		10.4081220	25593,047	0	4243,748	9.6278511	
Co-fines				Diff.	L. Sec.	N. Sec.	M.	Co-tangents	Diff.

# 67 Degrees

# 22 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-sines				
	10.3935904	24750,869	60	10785,347	10.0328341		511	9.9671659	9271,839	60		
3636	10.3932268	24730,155	59	10786,016	10.0328852		511	9.9671148	9270,748	59		
3634	10.3928634	24709,470	58	10787,885	10.0329363		512	9.9670637	9269,658	58		
3631	10.3925003	24688,816	57	10789,156	10.0329875		512	9.9670125	9268,566	57		
3630	10.3921373	24668,191	56	10790,427	10.0330386		513	9.9669614	9267,474	56		
3627	10.3917746	24647,596	55	10791,700	10.0330899		513	9.9669101	9266,380	55		
3626	10.3914120	24627,030	54	10792,975	10.0331412		513	9.9668588	9265,286	54		
3623	10.3910497	24606,494	53	10794,250	10.0331925		513	9.9668075	9264,192	53		
3621	10.3906876	24585,987	52	10795,527	10.0332438		513	9.9667562	9263,096	52		
3618	10.3903258	24565,510	51	10796,805	10.0332952		514	9.9667048	9262,000	51		
3617	10.3899641	24545,061	50	10798,084	10.0333467		515	9.9666533	9260,902	50		
3614	10.3896027	24524,642	49	10799,364	10.0333982		515	9.9666018	9259,805	49		
3613	10.3892414	24504,252	48	10800,646	10.0334497		515	9.9665503	9258,706	48		
3610	10.3888804	24483,891	47	10801,928	10.0335013		516	9.9664987	9257,606	47		
3608	10.3885190	24463,559	46	10803,212	10.0335529		516	9.9664471	9256,506	46		
3605	10.3881591	24443,256	45	10804,497	10.0336046		517	9.9663954	9255,405	45		
3604	10.3877987	24422,982	44	10805,784	10.0336563		517	9.9663437	9254,303	44		
3602	10.3874385	24402,736	43	10807,071	10.0337080		517	9.9662920	9253,201	43		
3599	10.3870786	24382,519	42	10808,360	10.0337598		518	9.9662402	9252,097	42		
3598	10.3867188	24362,331	41	10809,650	10.0338116		518	9.9661884	9250,993	41		
3595	10.3863593	24342,172	40	10810,942	10.0338635		519	9.9661365	9249,888	40		
3593	10.3860000	24322,041	39	10812,234	10.0339154		519	9.9660846	9248,782	39		
3591	10.3856409	24301,938	38	10813,528	10.0339674		520	9.9660326	9247,676	38		
3589	10.3852820	24281,864	37	10814,823	10.0340194		520	9.9659806	9246,568	37		
3586	10.3849234	24261,819	36	10816,119	10.0340715		521	9.9659285	9245,460	36		
3585	10.3845649	24241,801	35	10817,417	10.0341236		521	9.9658764	9244,351	35		
3583	10.3842066	24221,812	34	10818,715	10.0341757		521	9.9658243	9243,242	34		
3580	10.3838486	24201,851	33	10820,015	10.0342279		522	9.9657721	9242,131	33		
3579	10.3834907	24181,918	32	10821,316	10.0342801		522	9.9657199	9241,020	32		
3576	10.3831331	24162,013	31	10822,618	10.0343323		522	9.9656677	9239,908	31		
3574	10.3827757	24142,136	30	10823,922	10.0343847		524	9.9656153	9238,795	30		
3572	10.3824185	24122,286	29	10825,227	10.0344370		523	9.9655630	9237,682	29		
3570	10.3820615	24102,465	28	10826,533	10.0344894		524	9.9655106	9236,567	28		
3568	10.3817047	24082,672	27	10827,840	10.0345418		524	9.9654582	9235,452	27		
3566	10.3813481	24062,906	26	10829,149	10.0345943		525	9.9654057	9234,333	26		
3564	10.3809917	24043,168	25	10830,458	10.0346468		525	9.9653532	9233,220	25		
3562	10.3806355	24023,457	24	10831,769	10.0346994		526	9.9653006	9232,102	24		
3560	10.3802795	24003,774	23	10833,081	10.0347520		526	9.9652480	9230,984	23		
3557	10.3799238	23984,118	22	10834,395	10.0348047		527	9.9651953	9229,865	22		
3556	10.3795682	23964,490	21	10835,709	10.0348574		527	9.9651426	9228,745	21		
3554	10.3792128	23944,889	20	10837,025	10.0349101		527	9.9650899	9227,624	20		
3551	10.3788577	23925,316	19	10838,342	10.0349629		528	9.9650371	9226,503	19		
3550	10.3785027	23905,769	18	10839,661	10.0350157		528	9.9649843	9225,381	18		
3547	10.3781480	23886,250	17	10840,980	10.0350686		529	9.9649314	9224,258	17		
3546	10.3777934	23866,758	16	10842,301	10.0351215		529	9.9648785	9223,134	16		
3543	10.3774391	23847,293	15	10843,623	10.0351744		529	9.9648256	9222,010	15		
3541	10.3770850	23827,855	14	10844,947	10.0352274		530	9.9647726	9220,884	14		
3540	10.3767310	23808,444	13	10846,271	10.0352805		531	9.9647195	9219,758	13		
3537	10.3763773	23789,060	12	10847,597	10.0353335		530	9.9646665	9218,632	12		
3536	10.3760237	23769,703	11	10848,924	10.0353867		532	9.9646133	9217,504	11		
3533	10.3756704	23750,372	10	10850,252	10.0354398		531	9.9645602	9216,375	10		
3531	10.3753173	23731,068	9	10851,582	10.0354931		533	9.9645069	9215,246	9		
3529	10.3749644	23711,791	8	10852,913	10.0355463		532	9.9644537	9214,116	8		
3528	10.3746116	23692,540	7	10854,245	10.0355996		533	9.9644004	9212,986	7		
3525	10.3742591	23673,316	6	10855,578	10.0356530		534	9.9643470	9211,854	6		
3523	10.3739068	23654,118	5	10856,912	10.0357063		533	9.9642937	9210,722	5		
3522	10.3735546	23634,946	4	10858,248	10.0357598		535	9.9642402	9209,589	4		
3519	10.3732027	23615,801	3	10859,585	10.0358132		534	9.9641868	9208,453	3		
3518	10.3728509	23596,682	2	10860,924	10.0358668		536	9.9641332	9207,320	2		
3515	10.3724994	23577,590	1	10862,263	10.0359203		535	9.9640797	9206,185	1		
3513	10.3721481	23558,524	0	10863,604	10.0359739		536	9.9640261	9205,049	0		
Diff	L. Tang			N. Tan.	M	Co-secants			D	L. Sine	N. Sine	M

## 67 Degrees

# 23 Degrees

N. Sine L. Sine Diff				Co-secants				M N. Tan. L. Tan. Diff			
1	3907,311	9.5918780	2975	10.4081220	2.5593,047	50	60	0	4244,748	9.6278519	3512
2	3909,989	9.5921755	2973	10.4078245	2.5575,321	59	59	1	4248,182	9.6282031	3512
3	3912,666	9.5924728	2970	10.4075272	2.5558,022	58	58	2	4251,616	9.6285540	3509
4	3915,343	9.5927698	2968	10.4072302	2.5540,548	57	57	3	4255,051	9.6289048	3508
5	3918,019	9.5930666	2965	10.4069334	2.5523,101	56	56	4	4258,487	9.6292553	3505
6	3920,695	9.5933631	2963	10.4066369	2.5505,680	55	55	5	4261,924	9.6296057	3504
7	3923,371	9.5936594	2961	10.4063406	2.5488,284	54	54	6	4265,361	9.6299558	3501
8	3926,047	9.5939555	2958	10.4060445	2.5470,915	53	53	7	4268,800	9.6303058	3500
9	3928,722	9.5942513	2956	10.4057487	2.5453,551	52	52	8	4272,239	9.6306556	3498
10	3931,397	9.5945469	2953	10.4054531	2.5436,253	51	51	9	4275,680	9.6310052	3496
11	3934,071	9.5948422	2951	10.4051578	2.5418,961	50	50	10	4279,121	9.6313545	3493
12	3936,745	9.5951373	2949	10.4048627	2.5401,694	49	49	11	4282,563	9.6317037	3492
13	3939,419	9.5954322	2946	10.4045678	2.5384,453	48	48	12	4286,005	9.6320527	3490
14	3942,093	9.5957268	2944	10.4042732	2.5367,238	47	47	13	4289,449	9.6324015	3488
15	3944,766	9.5960212	2942	10.4039788	2.5350,048	46	46	14	4292,894	9.6327501	3486
16	3947,439	9.5963154	2939	10.4036846	2.5332,883	45	45	15	4296,339	9.6330988	3484
17	3950,111	9.5966093	2937	10.4033907	2.5315,744	44	44	16	4299,785	9.6334468	3481
18	3952,783	9.5969030	2935	10.4030970	2.5298,630	43	43	17	4303,232	9.6337948	3480
19	3955,455	9.5971965	2932	10.4028035	2.5281,541	42	42	18	4306,680	9.6341426	3477
20	3958,127	9.5974897	2930	10.4025103	2.5264,478	41	41	19	4310,129	9.6344903	3475
21	3960,798	9.5977827	2927	10.4022173	2.5247,440	40	40	20	4313,579	9.6348378	3472
22	3963,468	9.5980754	2925	10.4019246	2.5230,426	39	39	21	4317,030	9.6351850	3472
23	3966,139	9.5983679	2923	10.4016321	2.5213,438	38	38	22	4320,481	9.6355321	3471
24	3968,809	9.5986602	2921	10.4013398	2.5196,475	37	37	23	4323,933	9.6358790	3469
25	3971,479	9.5989523	2918	10.4010477	2.5179,537	36	36	24	4327,386	9.6362257	3467
26	3974,148	9.5992441	2916	10.4007559	2.5162,624	35	35	25	4330,840	9.6365722	3465
27	3976,818	9.5995357	2913	10.4004643	2.5145,735	34	34	26	4334,295	9.6369185	3463
28	3979,486	9.5998270	2911	10.4001730	2.5128,871	33	33	27	4337,751	9.6372646	3461
29	3982,155	9.6001181	2909	10.3998819	2.5112,032	32	32	28	4341,208	9.6376106	3460
30	3984,823	9.6004090	2907	10.3995910	2.5095,218	31	31	29	4344,665	9.6379563	3457
31	3987,491	9.6006997	2904	10.3993003	2.5078,428	30	30	30	4348,124	9.6383019	3455
32	3990,158	9.6009901	2902	10.3990099	2.5061,663	29	29	31	4351,583	9.6386473	3454
33	3992,825	9.6012803	2900	10.3987197	2.5044,923	28	28	32	4355,043	9.6389925	3452
34	3995,492	9.6015703	2897	10.3984297	2.5028,207	27	27	33	4358,504	9.6393375	3450
35	3998,158	9.6018600	2895	10.3981400	2.5011,515	26	26	34	4361,966	9.6396823	3448
36	4000,825	9.6021495	2893	10.3978505	2.4994,848	25	25	35	4365,429	9.6400269	3446
37	4003,490	9.6024388	2890	10.3975612	2.4978,204	24	24	36	4368,893	9.6403714	3445
38	4006,156	9.6027278	2888	10.3972722	2.4961,586	23	23	37	4372,357	9.6407156	3442
39	4008,821	9.6030166	2886	10.3969834	2.4944,991	22	22	38	4375,823	9.6410597	3441
40	4011,486	9.6033052	2884	10.3966948	2.4928,421	21	21	39	4379,289	9.6414036	3439
41	4014,150	9.6035936	2881	10.3964064	2.4911,874	20	20	40	4382,756	9.6417473	3437
42	4016,814	9.6038817	2879	10.3961183	2.4895,352	19	19	41	4386,224	9.6420908	3435
43	4019,478	9.6041696	2877	10.3958304	2.4878,854	18	18	42	4389,693	9.6424341	3434
44	4022,141	9.6044573	2875	10.3955427	2.4862,380	17	17	43	4393,163	9.6427773	3431
45	4024,804	9.6047448	2872	10.3952552	2.4845,929	16	16	44	4396,634	9.6431203	3430
46	4027,467	9.6050320	2870	10.3949680	2.4829,503	15	15	45	4400,105	9.6434631	3428
47	4030,129	9.6053190	2867	10.3946810	2.4813,100	14	14	46	4403,578	9.6438057	3426
48	4032,791	9.6056057	2866	10.3943943	2.4796,721	13	13	47	4407,051	9.6441481	3424
49	4035,453	9.6058923	2863	10.3941077	2.4780,366	12	12	48	4410,526	9.6444903	3422
50	4038,114	9.6061786	2861	10.3938214	2.4764,034	11	11	49	4414,001	9.6448324	3421
51	4040,775	9.6064647	2859	10.3935353	2.4747,726	10	10	50	4417,477	9.6451743	3419
52	4043,435	9.6067506	2856	10.3932494	2.4731,442	9	9	51	4420,954	9.6455160	3417
53	4046,096	9.6070362	2854	10.3929638	2.4715,181	8	8	52	4424,432	9.6458575	3415
54	4048,756	9.6073216	2852	10.3926784	2.4698,943	7	7	53	4427,910	9.6461988	3413
55	4051,415	9.6076068	2850	10.3923932	2.4682,729	6	6	54	4431,390	9.6465400	3412
56	4054,075	9.6078918	2847	10.3921082	2.4666,538	5	5	55	4434,871	9.6468810	3410
57	4056,734	9.6081765	2846	10.3918235	2.4650,371	4	4	56	4438,352	9.6472217	3407
58	4059,393	9.6084611	2843	10.3915389	2.4634,227	3	3	57	4441,833	9.6475624	3407
59	4062,051	9.6087454	2840	10.3912546	2.4618,106	2	2	58	4445,313	9.6479028	3404
60	4064,709	9.6090294	2839	10.3909706	2.4602,008	1	1	59	4448,792	9.6482431	3403
61	4067,366	9.6093133	2837	10.3906867	2.4585,933	0	0	60	4452,271	9.6485831	3400

# 66 Degrees

# 23 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
	10.3721481	3558,324	50	10863,604	10.0359739		9.9640261	3505,049 50
3512	10.3717969	23539,483	59	10864,946	10.0360276	537	9.9639724	203,912 59
3509	10.3714460	23520,469	58	210866,289	10.0360813	537	9.9639187	9202,774 58
3506	10.3710952	23501,481	57	310867,634	10.0361350	537	9.9638650	9201,633 57
3505	10.3707447	23482,519	56	410868,975	10.0361888	538	9.9638112	9200,496 56
3504	10.3703943	23463,582	55	510870,326	10.0362426	538	9.9637574	9199,350 55
3501	10.3700442	23444,672	54	610871,675	10.0362964	538	9.9637036	9198,215 54
5500	10.3696942	23425,787	53	710873,024	10.0363504	540	9.9636496	9197,073 53
3498	10.3693444	23406,928	52	810874,375	10.0364043	539	9.9635957	9195,931 52
3496	10.3689948	23388,095	51	910875,727	10.0364583	540	9.9635417	9194,788 51
3493	10.3686455	23369,287	50	1010877,080	10.0365123	540	9.9634877	9193,644 50
3492	10.3682963	23350,505	49	1110878,435	10.0365664	541	9.9634336	9192,500 49
3490	10.3679473	23331,748	48	1210879,791	10.0366205	541	9.9633795	9191,353 48
3488	10.3675985	23313,017	47	1310881,148	10.0366747	542	9.9633253	9190,207 47
3486	10.3672499	23294,311	46	1410882,506	10.0367289	542	9.9632711	9189,060 46
3484	10.3669015	23275,630	45	1510883,866	10.0367832	543	9.9632168	9187,912 45
3483	10.3665532	23256,973	44	1610885,226	10.0368375	543	9.9631625	9186,763 44
3480	10.3662052	23238,345	43	1710886,589	10.0368918	543	9.9631082	9185,614 43
3478	10.3658574	23219,740	42	1810887,952	10.0369462	544	9.9630538	9184,464 42
3477	10.3655097	23201,160	41	1910889,317	10.0370006	544	9.9629994	9183,313 41
3475	10.3651622	23182,609	40	2010890,682	10.0370551	545	9.9629449	9182,161 40
3472	10.3648150	23164,076	39	2110892,050	10.0371096	545	9.9628904	9181,009 39
3471	10.3644678	23145,571	38	2210893,418	10.0371642	546	9.9628358	9179,855 38
3469	10.3641210	23127,092	37	2310894,788	10.0372188	546	9.9627812	9178,701 37
3467	10.3637743	23108,637	36	2410896,159	10.0372734	546	9.9627266	9177,546 36
3465	10.3634278	23090,200	35	2510897,531	10.0373281	547	9.9626719	9176,391 35
3463	10.3630815	23071,801	34	2610898,904	10.0373828	547	9.9626172	9175,234 34
3461	10.3627354	23053,420	33	2710900,279	10.0374376	548	9.9625624	9174,077 33
3460	10.3623894	23035,064	32	2810901,655	10.0374924	548	9.9625076	9172,919 32
3457	10.3620432	23016,732	31	2910903,032	10.0375473	549	9.9624527	9171,760 31
3456	10.3616981	22998,423	30	3010904,411	10.0376022	549	9.9623978	9170,601 30
3454	10.3613527	22980,143	29	3110905,791	10.0376572	550	9.9623428	9169,440 29
3452	10.3610075	22961,885	28	3210907,172	10.0377122	550	9.9622878	9168,279 28
3450	10.3606625	22943,651	27	3310908,554	10.0377672	551	9.9622328	9167,118 27
3448	10.3603177	22925,442	26	3410909,938	10.0378223	551	9.9621777	9165,955 26
3446	10.3599731	22907,257	25	3510911,323	10.0378774	551	9.9621226	9164,791 25
3445	10.3596286	22889,096	24	3610912,709	10.0379326	552	9.9620674	9163,627 24
3442	10.3592844	22870,959	23	3710914,097	10.0379878	552	9.9620122	9162,462 23
3441	10.3589403	22852,846	22	3810915,483	10.0380431	553	9.9619569	9161,297 22
3439	10.3585964	22834,758	21	3910916,876	10.0380984	553	9.9619016	9160,130 21
3437	10.3582527	22816,693	20	4010918,267	10.0381537	553	9.9618463	9158,963 20
3435	10.3579092	22798,653	19	4110919,659	10.0382091	554	9.9617909	9157,795 19
3434	10.3575658	22780,636	18	4210921,053	10.0382645	554	9.9617355	9156,626 18
3431	10.3572227	22762,643	17	4310922,448	10.0383200	555	9.9616800	9155,456 17
3430	10.3568797	22744,674	16	4410923,845	10.0383755	555	9.9616245	9154,286 16
3428	10.3565369	22726,729	15	4510925,243	10.0384311	556	9.9615689	9153,115 15
3426	10.3561943	22708,807	14	4610926,642	10.0384867	556	9.9615133	9151,943 14
3424	10.3558519	22690,909	13	4710928,042	10.0385424	557	9.9614576	9150,770 13
3422	10.3555097	22673,035	12	4810929,444	10.0385980	556	9.9614020	9149,597 12
3421	10.3551676	22655,184	11	4910930,846	10.0386538	558	9.9613462	9148,422 11
3419	10.3548257	22637,357	10	5010932,251	10.0387096	558	9.9612904	9147,247 10
3417	10.3544840	22619,554	9	5110933,656	10.0387654	559	9.9612346	9146,072 9
3415	10.3541425	22601,773	8	5210935,063	10.0388213	559	9.9611787	9144,895 8
3413	10.3538012	22584,016	7	5310936,471	10.0388772	560	9.9611228	9143,718 7
3412	10.3534600	22566,283	6	5410937,880	10.0389332	560	9.9610668	9142,540 6
3410	10.3531190	22548,572	5	5510939,291	10.0389892	560	9.9610108	9141,361 5
3407	10.3527783	22530,885	4	5610940,702	10.0390452	561	9.9609548	9140,181 4
3407	10.3524376	22513,221	3	5710942,116	10.0391013	561	9.9608987	9139,001 3
3404	10.3520972	22495,580	2	5810943,530	10.0391574	562	9.9608426	9137,819 2
3403	10.3517569	22477,962	1	5910944,946	10.0392136	562	9.9607864	9136,637 1
3400	10.3514169	22460,368	0	6010946,363	10.0392698	562	9.9607302	9135,455 0
Diff	L. Tang	N. Tan	M	Co-secants		D	L. Sine	N. Sine

66 Degrees

Hh

# 24 Degrees

N. Sine	L. Sine	Diff	Co-secants		M	N. Tan.	L. Tan.	Diff
0.067,366	9.6093133	2836	10.3906867	24585.933	60	0.4452,287	9.6485831	3390
1 0.070,024	9.6095965	2834	10.3904031	24569,882	59	1 4455,773	9.6489230	3398
2 0.072,681	9.6098803	2832	10.3901197	24553,855	58	2 4459,260	9.6492628	3395
3 0.075,337	9.6101635	2830	10.3898365	24537,848	57	3 4462,747	9.6496023	3394
4 0.077,993	9.6104465	2828	10.3895535	24521,865	56	4 4466,236	9.6499417	3392
5 0.080,649	9.6107293	2825	10.3892707	24505,905	55	5 4469,726	9.6502809	3390
6 0.083,305	9.6110118	2823	10.3889882	24489,968	54	6 4473,216	9.6506199	3388
7 0.085,960	9.6112941	2821	10.3887059	24474,054	53	7 4476,708	9.6509587	3387
8 0.088,615	9.6115762	2818	10.3884238	24458,163	52	8 4480,200	9.6512974	3385
9 0.091,269	9.6118580	2817	10.3881420	24442,294	51	9 4483,693	9.6516359	3383
10 0.093,923	9.6121397	2814	10.3878603	24426,448	50	10 4487,187	9.6519742	3381
11 0.096,577	9.6124211	2812	10.3875785	24410,624	49	11 4490,682	9.6523123	3380
12 0.099,230	9.6127023	2810	10.3872977	24394,823	48	12 4494,178	9.6526503	3378
13 0.101,883	9.6129833	2808	10.3870167	24379,045	47	13 4497,675	9.6529881	3376
14 0.104,537	9.6132641	2805	10.3867359	24363,289	46	14 4501,173	9.6533257	3374
15 0.107,189	9.6135446	2804	10.3864554	24347,555	45	15 4504,672	9.6536631	3373
16 0.109,841	9.6138250	2801	10.3861750	24331,844	44	16 4508,171	9.6540004	3371
17 0.112,492	9.6141051	2799	10.3858949	24316,155	43	17 4511,672	9.6543375	3369
18 0.115,144	9.6143850	2797	10.3856150	24300,489	42	18 4515,173	9.6546744	3368
19 0.117,795	9.6146647	2794	10.3853353	24284,844	41	19 4518,676	9.6550112	3366
20 0.120,445	9.6149441	2793	10.3850559	24269,222	40	20 4522,179	9.6553477	3364
21 0.123,096	9.6152234	2790	10.3847766	24253,622	39	21 4525,683	9.6556841	3363
22 0.125,745	9.6155024	2788	10.3844976	24238,044	38	22 4529,188	9.6560204	3363
23 0.128,395	9.6157812	2787	10.3842188	24222,488	37	23 4532,694	9.6563566	3360
24 0.131,044	9.6160599	2783	10.3839401	24206,954	36	24 4536,201	9.6566923	3359
25 0.133,693	9.6163382	2782	10.3836618	24191,442	35	25 4539,709	9.6570280	3357
26 0.136,342	9.6166164	2780	10.3833836	24175,952	34	26 4543,218	9.6573636	3356
27 0.138,990	9.6168944	2777	10.3831056	24160,484	33	27 4546,728	9.6576998	3353
28 0.141,638	9.6171721	2775	10.3828279	24145,038	32	28 4550,238	9.6580341	3352
29 0.144,285	9.6174496	2774	10.3825504	24129,613	31	29 4553,750	9.6583692	3351
30 0.146,932	9.6177270	2771	10.3822730	24114,210	30	30 4557,263	9.6587041	3349
31 0.149,579	9.6180041	2768	10.3819959	24098,829	29	31 4560,776	9.6590387	3346
32 0.152,226	9.6182809	2767	10.3817191	24083,465	28	32 4564,290	9.6593733	3346
33 0.154,872	9.6185576	2765	10.3814424	24068,132	27	33 4567,806	9.6597076	3343
34 0.157,517	9.6188341	2762	10.3811659	24052,815	26	34 4571,322	9.6600418	3342
35 0.160,163	9.6191103	2761	10.3808897	24037,520	25	35 4574,839	9.6603758	3340
36 0.162,808	9.6193864	2758	10.3806136	24022,247	24	36 4578,357	9.6607097	3339
37 0.165,453	9.6196622	2756	10.3803378	24006,995	23	37 4581,877	9.6610434	3337
38 0.168,097	9.6199378	2754	10.3800622	23991,764	22	38 4585,397	9.6613769	3335
39 0.170,741	9.6202132	2752	10.3797868	23976,553	21	39 4588,918	9.6617103	3334
40 0.173,385	9.6204884	2750	10.3795116	23961,367	20	40 4592,439	9.6620434	3331
41 0.176,028	9.6207634	2748	10.3792366	23946,201	19	41 4595,962	9.6623765	3331
42 0.178,671	9.6210382	2745	10.3789618	23931,055	18	42 4599,486	9.6627093	3328
43 0.181,313	9.6213127	2744	10.3786873	23915,931	17	43 4603,011	9.6630420	3327
44 0.183,956	9.6215871	2741	10.3784129	23900,828	16	44 4606,537	9.6633745	3324
45 0.186,597	9.6218612	2739	10.3781388	23885,746	15	45 4610,063	9.6637069	3322
46 0.189,239	9.6221351	2737	10.3778649	23870,685	14	46 4613,591	9.6640391	3320
47 0.191,880	9.6224088	2736	10.3775912	23855,645	13	47 4617,119	9.6643711	3319
48 0.194,521	9.6226824	2733	10.3773176	23840,625	12	48 4620,640	9.6647030	3316
49 0.197,161	9.6229557	2730	10.3770443	23825,627	11	49 4624,171	9.6650346	3316
50 0.199,801	9.6232287	2729	10.3767713	23810,650	10	50 4627,700	9.6653662	3313
51 0.202,441	9.6235016	2727	10.3764984	23795,694	9	51 4631,243	9.6656975	3313
52 0.205,080	9.6237743	2725	10.3762257	23780,758	8	52 4634,776	9.6660288	3313
53 0.207,719	9.6240468	2722	10.3759532	23765,843	7	53 4638,310	9.6663598	3310
54 0.210,358	9.6243190	2721	10.3756810	23750,945	6	54 4641,845	9.6666907	3309
55 0.212,996	9.6245911	2718	10.3754089	23736,075	5	55 4645,382	9.6670214	3307
56 0.215,634	9.6248629	2717	10.3751371	23721,222	4	56 4648,919	9.6673519	3305
57 0.218,272	9.6251346	2714	10.3748654	23706,390	3	57 4652,457	9.6676823	3304
58 0.220,909	9.6254060	2712	10.3745940	23691,578	2	58 4655,996	9.6680126	3300
59 0.223,546	9.6256772	2711	10.3743228	23676,787	1	59 4659,536	9.6683426	3299
60 0.226,183	9.6259483	2710	10.3740517	23662,016	0	60 4663,077	9.6686725	3298
Co-ines			L. Sec. N. Sec. M		Co-tangents			

# 65 Degrees

# 24 Degrees

Diff.	Co-rangents				M	N. Sec.	L. Sec.	D	Co-lines		
	10.3514169	22460.368	60		c	10946.363	10.0392698		9.9607302	9135.455	50
3399	10.3510770	22442.796	59	1	10947.781	10.0393261	563	9.9600739	9134.271	59	
3398	10.3507372	22425.247	58	2	10949.201	10.0393824	563	9.9606176	9133.087	58	
3395	10.3503977	22407.721	57	3	10950.622	10.0394388	564	9.9605612	9131.902	57	
3394	10.3500583	22390.218	56	4	10952.044	10.0394952	564	9.9605048	9130.716	56	
3392	10.3497191	22372.738	55	5	10953.467	10.0395516	564	9.9604484	9129.525	55	
3390	10.3493780	22355.280	54	6	10954.892	10.0396081	565	9.9603919	9128.342	54	
3388	10.3490413	22337.845	53	7	10956.318	10.0396646	565	9.9603354	9127.154	53	
3387	10.3487026	22320.433	52	8	10957.746	10.0397212	566	9.9602788	9125.965	52	
3385	10.3483641	22303.043	51	9	10959.174	10.0397776	566	9.9602222	9124.775	51	
3383	10.3480258	22285.676	50	10	10960.604	10.0398345	567	9.9601655	9123.584	50	
3381	10.3476877	22268.331	49	11	10962.036	10.0398912	567	9.9601083	9122.395	49	
3380	10.3473497	22251.009	48	12	10963.468	10.0399480	568	9.9600520	9121.201	48	
3378	10.3470119	22233.709	47	13	10964.902	10.0400048	568	9.9599952	9120.008	47	
3376	10.3466743	22216.432	46	14	10966.333	10.0400616	568	9.9599384	9118.815	46	
3374	10.3463366	22199.177	45	15	10967.774	10.0401185	569	9.9598815	9117.620	45	
3373	10.3459990	22181.944	44	16	10969.212	10.0401754	569	9.9598246	9116.425	44	
3371	10.3456625	22164.733	43	17	10970.651	10.0402324	570	9.9597676	9115.225	43	
3369	10.3453256	22147.545	42	18	10972.091	10.0402894	570	9.9597106	9114.033	42	
3368	10.3449888	22130.379	41	19	10973.533	10.0403465	571	9.9596535	9112.835	41	
3365	10.3446523	22113.234	40	20	10974.976	10.0404036	571	9.9595964	9111.637	40	
3364	10.3443159	22096.112	39	21	10976.420	10.0404607	571	9.9595393	9110.438	39	
3363	10.3439796	22079.012	38	22	10977.866	10.0405179	572	9.9594821	9109.238	38	
3360	10.3436436	22061.934	37	23	10979.313	10.0405752	573	9.9594248	9108.038	37	
3359	10.3433077	22044.878	36	24	10980.761	10.0406325	573	9.9593675	9106.837	36	
3357	10.3429720	22027.843	35	25	10982.211	10.0406898	573	9.9593102	9105.635	35	
3356	10.3426364	22010.831	34	26	10983.662	10.0407472	574	9.9592528	9104.432	34	
3353	10.3423011	21993.840	33	27	10985.114	10.0408046	574	9.9591954	9103.228	33	
3352	10.3419659	21976.871	32	28	10986.568	10.0408620	574	9.9591380	9102.024	32	
3351	10.3416308	21959.923	31	29	10988.023	10.0409195	575	9.9590805	9100.813	31	
3349	10.3412959	21942.997	30	30	10989.479	10.0409771	576	9.9590229	9099.613	30	
3346	10.3409613	21926.093	29	31	10990.936	10.0410347	576	9.9589653	9098.406	29	
3346	10.3406267	21909.210	28	32	10992.395	10.0410923	576	9.9589077	9097.195	28	
3343	10.3402924	21892.349	27	33	10993.855	10.0411500	577	9.9588500	9095.990	27	
3342	10.3399582	21875.510	26	34	10995.317	10.0412077	577	9.9587923	9094.781	26	
3340	10.3396242	21858.691	25	35	10996.779	10.0412653	578	9.9587345	9093.572	25	
3339	10.3392903	21841.894	24	36	10998.243	10.0413233	578	9.9586767	9092.361	24	
3337	10.3389566	21825.119	23	37	10999.709	10.0413812	579	9.9586188	9091.150	23	
3335	10.3386231	21808.364	22	38	11001.175	10.0414391	579	9.9585609	9089.938	22	
3334	10.3382897	21791.631	21	39	11002.644	10.0414970	579	9.9585030	9088.725	21	
3331	10.3379566	21774.920	20	40	11004.113	10.0415550	580	9.9584450	9087.511	20	
3331	10.3376235	21758.229	19	41	11005.584	10.0416131	581	9.9583869	9086.297	19	
3328	10.3372907	21741.559	18	42	11007.056	10.0416712	581	9.9583288	9085.082	18	
3327	10.3369580	21724.911	17	43	11008.529	10.0417293	581	9.9582707	9083.866	17	
3325	10.3366255	21708.283	16	44	11010.004	10.0417875	582	9.9582125	9082.645	16	
3324	10.3362931	21691.677	15	45	11011.480	10.0418457	582	9.9581543	9081.422	15	
3322	10.3359609	21675.091	14	46	11012.957	10.0419039	582	9.9580961	9080.200	14	
3320	10.3356289	21658.527	13	47	11014.436	10.0419622	583	9.9580378	9078.975	13	
3319	10.3352970	21641.983	12	48	11015.916	10.0420206	584	9.9579794	9077.753	12	
3316	10.3349654	21625.460	11	49	11017.397	10.0420790	584	9.9579210	9076.534	11	
3316	10.3346338	21608.958	10	50	11018.879	10.0421374	584	9.9578626	9075.313	10	
3313	10.3343025	21592.476	9	51	11020.363	10.0421959	585	9.9578041	9074.091	9	
3313	10.3339712	21576.015	8	52	11021.849	10.0422544	585	9.9577456	9072.868	8	
3310	10.3336402	21559.575	7	53	11023.335	10.0423130	586	9.9576870	9071.645	7	
3309	10.3333093	21543.156	6	54	11024.823	10.0423716	586	9.9576284	9070.422	6	
3307	10.3329786	21526.757	5	55	11026.313	10.0424303	587	9.9575697	9069.195	5	
3305	10.3326481	21510.378	4	56	11027.803	10.0424890	587	9.9575110	9067.967	4	
3304	10.3323177	21494.021	3	57	11029.295	10.0425478	588	9.9574522	9066.732	3	
3303	10.3319874	21477.683	2	58	11030.789	10.0426066	588	9.9573934	9065.495	2	
3300	10.3316574	21461.366	1	59	11032.283	10.0426654	588	9.9573346	9064.257	1	
3299	10.3313275	21445.069	0	60	11033.779	10.0427243	589	9.9572757	9063.018	0	
Diff.	L. Tang.	N. Tan.	M.		Co-secants			D	L. Sine	N. Sine	M.

65 Degrees

Hh2

# 25 Degrees

N. Sine	L. Sine	Diff	Co-secants	M. N. Tan.	L. Tan.	Diff		
0 4226,183	9.6259483	2708	10.3740517	23662,016	60	0 4663,077	9.6686725	3298
1 4228,819	9.6262191	2706	10.3737809	23647,265	59	1 4666,618	9.6690023	3296
2 4231,455	9.6264897	2704	10.3735103	23632,535	58	2 4670,161	9.6693319	3294
3 4234,090	9.6267601	2702	10.3732399	23617,826	57	3 4673,705	9.6696613	3293
4 4236,725	9.6270303	2700	10.3729697	23603,136	56	4 4677,250	9.6699906	3291
5 4239,360	9.6273003	2698	10.3726997	23588,467	55	5 4680,796	9.6703197	3289
6 4241,994	9.6275701	2696	10.3724299	23573,818	54	6 4684,342	9.6706486	3288
7 4244,628	9.6278397	2693	10.3721603	23559,189	53	7 4687,890	9.6709774	3286
8 4247,262	9.6281090	2692	10.3718910	23544,581	52	8 4691,439	9.6713060	3285
9 4249,895	9.6283782	2690	10.3716218	23529,992	51	9 4694,988	9.6716345	3283
10 4252,528	9.6286472	2688	10.3713528	23515,424	50	10 4698,539	9.6719628	3282
11 4255,161	9.6289160	2685	10.3710840	23500,875	49	11 4702,090	9.6722910	3280
12 4257,793	9.6291845	2684	10.3708155	23486,347	48	12 4705,643	9.6726190	3278
13 4260,425	9.6294529	2682	10.3705471	23471,838	47	13 4709,196	9.6729468	3277
14 4263,056	9.6297211	2679	10.3702789	23457,349	46	14 4712,751	9.6732745	3275
15 4265,687	9.6299890	2678	10.3700110	23442,881	45	15 4716,306	9.6736020	3274
16 4268,318	9.6302568	2675	10.3697432	23428,432	44	16 4719,863	9.6739294	3272
17 4270,949	9.6305243	2674	10.3694757	23414,002	43	17 4723,420	9.6742566	3270
18 4273,579	9.6307917	2672	10.3692083	23399,593	42	18 4726,978	9.6745836	3269
19 4276,208	9.6310589	2669	10.3689411	23385,203	41	19 4730,538	9.6749105	3267
20 4278,838	9.6313258	2668	10.3686742	23370,833	40	20 4734,098	9.6752372	3266
21 4281,467	9.6315926	2665	10.3684074	23356,482	39	21 4737,659	9.6755638	3265
22 4284,095	9.6318591	2664	10.3681409	23342,152	38	22 4741,222	9.6758903	3262
23 4286,723	9.6321255	2661	10.3678745	23327,840	37	23 4744,785	9.6762165	3261
24 4289,351	9.6323916	2660	10.3676084	23313,548	36	24 4748,349	9.6765426	3260
25 4291,979	9.6326576	2657	10.3673424	23299,276	35	25 4751,914	9.6768686	3258
26 4294,606	9.6329233	2656	10.3670767	23285,023	34	26 4755,481	9.6771944	3257
27 4297,233	9.6331889	2653	10.3668111	23270,790	33	27 4759,048	9.6775201	3255
28 4299,859	9.6334542	2652	10.3665458	23256,575	32	28 4762,616	9.6778456	3253
29 4302,485	9.6337194	2650	10.3662806	23242,381	31	29 4766,185	9.6781709	3252
30 4305,111	9.6339844	2647	10.3660156	23228,205	30	30 4769,753	9.6784961	3250
31 4307,736	9.6342491	2646	10.3657509	23214,049	29	31 4773,320	9.6788211	3249
32 4310,361	9.6345137	2643	10.3654863	23199,912	28	32 4776,889	9.6791460	3248
33 4312,986	9.6347780	2642	10.3652220	23185,794	27	33 4780,457	9.6794708	3245
34 4315,610	9.6350422	2640	10.3649578	23171,695	26	34 4784,026	9.6797953	3245
35 4318,234	9.6353062	2637	10.3646938	23157,615	25	35 4787,591	9.6801198	3242
36 4320,857	9.6355699	2636	10.3644301	23143,554	24	36 4791,157	9.6804440	3242
37 4323,481	9.6358335	2634	10.3641665	23129,513	23	37 4794,724	9.6807682	3239
38 4326,103	9.6360969	2632	10.3639031	23115,490	22	38 4798,292	9.6810921	3239
39 4328,726	9.6363601	2630	10.3636399	23101,486	21	39 4801,861	9.6814160	3236
40 4331,348	9.6366231	2628	10.3633769	23087,501	20	40 4805,432	9.6817396	3236
41 4333,970	9.6368859	2625	10.3631141	23073,536	19	41 4809,003	9.6820632	3233
42 4336,591	9.6371484	2624	10.3628516	23059,588	18	42 4812,575	9.6823865	3233
43 4339,212	9.6374108	2623	10.3625892	23045,666	17	43 4816,148	9.6827098	3230
44 4341,832	9.6376731	2620	10.3623269	23031,751	16	44 4819,722	9.6830328	3229
45 4344,453	9.6379351	2618	10.3620649	23017,860	15	45 4823,297	9.6833557	3228
46 4347,072	9.6381969	2616	10.3618031	23003,988	14	46 4826,871	9.6836785	3226
47 4349,692	9.6384585	2614	10.3615415	22990,134	13	47 4830,446	9.6840011	3225
48 4352,311	9.6387199	2613	10.3612801	22976,299	12	48 4834,021	9.6843236	3223
49 4354,930	9.6389812	2610	10.3610188	22962,483	11	49 4837,597	9.6846455	3222
50 4357,548	9.6392422	2608	10.3607578	22948,685	10	50 4841,173	9.6849668	3220
51 4360,166	9.6395030	2607	10.3604970	22934,906	9	51 4844,750	9.6852881	3219
52 4362,784	9.6397637	2604	10.3602363	22921,145	8	52 4848,328	9.6856092	3218
53 4365,401	9.6400241	2603	10.3599759	22907,403	7	53 4851,906	9.6859303	3215
54 4368,018	9.6402844	2601	10.3597156	22893,679	6	54 4855,485	9.6862513	3215
55 4370,634	9.6405445	2599	10.3594555	22879,974	5	55 4859,064	9.6865726	3213
56 4373,251	9.6408044	2596	10.3591956	22866,286	4	56 4862,643	9.6868938	3211
57 4375,866	9.6410640	2595	10.3589360	22852,618	3	57 4866,222	9.6872149	3210
58 4378,482	9.6413235	2593	10.3586765	22838,967	2	58 4869,801	9.6875359	3208
59 4381,097	9.6415828	2592	10.3584172	22825,335	1	59 4873,380	9.6878568	3207
60 4383,711	9.6418420	2590	10.3581580	22811,720	0	60 4876,959	9.6881778	3205
Co-fines	Diff	L. Sec.	N. Sec.	M.	Co-tangents	Diff		

# 64 Degrees

# 25 Degrees

Diff	Co-tangents.			M	N. Sec.	L. Sec.	D	Co-fines		
	10.3313275	21445,069	60	0	11033,779	10.0427243	589	9.9572757	9003,076	60
3298	10.3309977	21442,793	59	1	11035,277	10.0427832	590	9.9572168	9001,848	59
3296	10.3306681	21412,537	58	2	11036,775	10.0428422	591	9.9571578	9000,618	58
3294	10.3303387	21390,301	57	3	11038,275	10.0429012	592	9.9570988	9059,386	57
3293	10.3300094	21380,856	56	4	11039,777	10.0429603	593	9.9570397	9058,154	56
3291	10.3296803	21363,890	55	5	11041,279	10.0430194	594	9.9569806	9056,922	55
3289	10.3293514	21347,714	54	6	11042,783	10.0430785	595	9.9569215	9055,688	54
3288	10.3290226	21331,559	53	7	11044,289	10.0431377	596	9.9568623	9054,454	53
3286	10.3286940	21315,423	52	8	11045,795	10.0431970	597	9.9568030	9053,219	52
3285	10.3283655	21299,308	51	9	11047,303	10.0432563	598	9.9567437	9051,983	51
3283	10.3280372	21283,213	50	10	11048,813	10.0433156	599	9.9566844	9050,746	50
3282	10.3277090	21267,137	49	11	11050,324	10.0433750	594	9.9566250	9049,509	49
3280	10.3273810	21251,082	48	12	11051,836	10.0434344	595	9.9565656	9048,271	48
3278	10.3270532	21235,046	47	13	11053,349	10.0434939	596	9.9565061	9047,032	47
3277	10.3267255	21219,030	46	14	11054,864	10.0435534	597	9.9564466	9045,792	46
3275	10.3263980	21203,034	45	15	11056,380	10.0436130	598	9.9563870	9044,551	45
3274	10.3260706	21187,057	44	16	11057,898	10.0436726	599	9.9563274	9043,310	44
3272	10.3257434	21171,101	43	17	11059,417	10.0437322	594	9.9562678	9042,068	43
3270	10.3254164	21155,164	42	18	11060,937	10.0437919	597	9.9562081	9040,825	42
3269	10.3250895	21139,246	41	19	11062,458	10.0438517	598	9.9561483	9039,582	41
3267	10.3247628	21123,348	40	20	11063,981	10.0439114	599	9.9560886	9038,338	40
3266	10.3244362	21107,470	39	21	11065,506	10.0439713	599	9.9560287	9037,093	39
3265	10.3241097	21091,611	38	22	11067,031	10.0440311	600	9.9559689	9035,847	38
3262	10.3237835	21075,771	37	23	11068,558	10.0440911	599	9.9559089	9034,600	37
3261	10.3234574	21059,951	36	24	11070,087	10.0441510	600	9.9558490	9033,353	36
3260	10.3231314	21044,150	35	25	11071,616	10.0442110	601	9.9557890	9032,103	35
3258	10.3228056	21028,369	34	26	11073,147	10.0442711	601	9.9557289	9030,856	34
3257	10.3224799	21012,607	33	27	11074,680	10.0443312	601	9.9556688	9029,606	33
3255	10.3221544	20996,864	32	28	11076,214	10.0443913	602	9.9556087	9028,356	32
3253	10.3218291	20981,140	31	29	11077,749	10.0444515	602	9.9555485	9027,103	31
3252	10.3215039	20965,436	30	30	11079,285	10.0445118	602	9.9554882	9025,853	30
3250	10.3211789	20949,751	29	31	11080,823	10.0445720	604	9.9554280	9024,600	29
3249	10.3208540	20934,085	28	32	11082,363	10.0446324	604	9.9553676	9023,347	28
3248	10.3205292	20918,437	27	33	11083,903	10.0446927	603	9.9553073	9022,092	27
3245	10.3202047	20902,809	26	34	11085,445	10.0447531	605	9.9552469	9020,838	26
3245	10.3198802	20887,200	25	35	11086,989	10.0448136	605	9.9551864	9019,582	25
3242	10.3195560	20871,610	24	36	11088,533	10.0448741	606	9.9551259	9018,325	24
3242	10.3192318	20856,039	23	37	11090,079	10.0449347	606	9.9550653	9017,068	23
3239	10.3189079	20840,487	22	38	11091,627	10.0449953	607	9.9550047	9015,810	22
3239	10.3185840	20824,953	21	39	11093,176	10.0450559	607	9.9549441	9014,551	21
3236	10.3182604	20809,438	20	40	11094,726	10.0451166	607	9.9548834	9013,292	20
3236	10.3179368	20793,942	19	41	11096,277	10.0451773	608	9.9548227	9012,031	19
3233	10.3176135	20778,465	18	42	11097,830	10.0452381	608	9.9547619	9010,770	18
3233	10.3172902	20763,007	17	43	11099,385	10.0452989	609	9.9547011	9009,508	17
3230	10.3169672	20747,567	16	44	11100,940	10.0453598	609	9.9546402	9008,246	16
3229	10.3166443	20732,146	15	45	11102,498	10.0454207	609	9.9545793	9006,982	15
3228	10.3163215	20716,743	14	46	11104,056	10.0454816	610	9.9545184	9005,718	14
3226	10.3159989	20701,359	13	47	11105,616	10.0455426	611	9.9544574	9004,453	13
3225	10.3156764	20685,994	12	48	11107,177	10.0456037	611	9.9543963	9003,188	12
3223	10.3153541	20670,646	11	49	11108,740	10.0456648	611	9.9543352	9001,921	11
3222	10.3150319	20655,318	10	50	11110,304	10.0457259	612	9.9542741	9000,654	10
3220	10.3147099	20640,008	9	51	11111,869	10.0457871	612	9.9542129	8999,386	9
3219	10.3143880	20624,716	8	52	11113,436	10.0458483	613	9.9541517	8998,117	8
3218	10.3140662	20609,442	7	53	11115,004	10.0459096	613	9.9540904	8996,848	7
3215	10.3137447	20594,187	6	54	11116,573	10.0459709	614	9.9540291	8995,578	6
3215	10.3134232	20578,950	5	55	11118,144	10.0460323	614	9.9539677	8994,307	5
3213	10.3131019	20563,732	4	56	11119,716	10.0460937	615	9.9539063	8993,035	4
3211	10.3127808	20548,531	3	57	11121,290	10.0461552	615	9.9538448	8991,763	3
3210	10.3124598	20533,349	2	58	11122,865	10.0462167	615	9.9537833	8990,485	2
3209	10.3121389	20518,185	1	59	11124,442	10.0462782	616	9.9537218	8989,215	1
3207	10.3118182	20503,038	0	60	11126,019	10.0463398	616	9.9536602	8987,940	0
Diff	L. Tang. N. Tan. M			Co-secants			D	L. Sine N. Sine		

# 64 Degrees

# 26 Degrees

M	N. Sine	L. Sine	Diff	Co-secants		M	N. Tan.	L. Tan.	Diff
0	4383,711	9.6418420	2589	10.3581580	22811,720	60	0.4877,326	9.6881818	3205
1	4386,326	9.6421009	2587	10.3578991	22798,124	59	1.4880,927	9.6885023	3204
2	4388,940	9.6423596	2586	10.3576404	22784,546	58	2.4884,530	9.6888227	3203
3	4391,553	9.6426182	2583	10.3573818	22770,987	57	3.4888,133	9.6891430	3202
4	4394,166	9.6428765	2582	10.3571235	22757,445	56	4.4891,737	9.6894631	3201
5	4396,779	9.6431347	2579	10.3568653	22743,921	55	5.4895,343	9.6897831	3199
6	4399,392	9.6433926	2578	10.3566074	22730,415	54	6.4898,949	9.6901030	3196
7	4402,004	9.6436504	2576	10.3563496	22716,927	53	7.4902,557	9.6904226	3196
8	4404,615	9.6439080	2574	10.3560920	22703,457	52	8.4906,166	9.6907422	3194
9	4407,227	9.6441654	2572	10.3558346	22690,005	51	9.4909,775	9.6910616	3193
10	4409,838	9.6444226	2570	10.3555774	22676,571	50	10.4913,386	9.6913809	3191
11	4412,448	9.6446796	2569	10.3553204	22663,155	49	11.4916,997	9.6917000	3189
12	4415,059	9.6449365	2566	10.3550635	22649,756	48	12.4920,610	9.6920189	3188
13	4417,668	9.6451931	2565	10.3548069	22636,376	47	13.4924,224	9.6923378	3187
14	4420,278	9.6454496	2562	10.3545504	22622,912	46	14.4927,838	9.6926565	3185
15	4422,887	9.6457058	2561	10.3542942	22609,467	45	15.4931,454	9.6929750	3184
16	4425,496	9.6459619	2559	10.3540381	22596,039	44	16.4935,071	9.6932934	3183
17	4428,104	9.6462178	2557	10.3537822	22582,629	43	17.4938,689	9.6936117	3181
18	4430,712	9.6464735	2555	10.3535265	22569,236	42	18.4942,308	9.6939298	3180
19	4433,319	9.6467290	2554	10.3532710	22555,861	41	19.4945,928	9.6942478	3178
20	4435,927	9.6469844	2551	10.3530156	22542,504	40	20.4949,549	9.6945656	3177
21	4438,534	9.6472395	2550	10.3527605	22529,064	39	21.4953,171	9.6948833	3176
22	4441,140	9.6474945	2547	10.3525055	22515,741	38	22.4956,794	9.6952009	3174
23	4443,746	9.6477492	2546	10.3522508	22502,436	37	23.4960,418	9.6955185	3172
24	4446,352	9.6480038	2544	10.3519962	22489,148	36	24.4964,043	9.6958355	3172
25	4448,957	9.6482582	2542	10.3517418	22475,875	35	25.4967,669	9.6961527	3170
26	4451,562	9.6485124	2541	10.3514876	22462,625	34	26.4971,297	9.6964697	3168
27	4454,167	9.6487665	2538	10.3512335	22449,398	33	27.4974,925	9.6967865	3167
28	4456,771	9.6490203	2537	10.3509797	22436,190	32	28.4978,554	9.6971032	3166
29	4459,375	9.6492740	2534	10.3507260	22422,999	31	29.4982,185	9.6974198	3165
30	4461,978	9.6495274	2533	10.3504726	22410,825	30	30.4985,816	9.6977363	3163
31	4464,581	9.6497807	2531	10.3502193	22398,667	29	31.4989,449	9.6980526	3161
32	4467,184	9.6500338	2530	10.3499662	22386,525	28	32.4993,082	9.6983687	3160
33	4469,786	9.6502868	2527	10.3497132	22374,398	27	33.4996,717	9.6986847	3159
34	4472,388	9.6505395	2525	10.3494605	22362,286	26	34.5000,352	9.6989996	3158
35	4474,990	9.6507920	2524	10.3492080	22350,189	25	35.5003,989	9.6993144	3156
36	4477,591	9.6510444	2522	10.3489556	22338,106	24	36.5007,627	9.6996290	3154
37	4480,192	9.6512966	2520	10.3487034	22326,037	23	37.5011,266	9.6999434	3154
38	4482,792	9.6515486	2518	10.3484514	22313,982	22	38.5014,906	9.7002578	3152
39	4485,392	9.6518004	2517	10.3481996	22301,941	21	39.5018,547	9.7005720	3151
40	4487,992	9.6520521	2514	10.3479479	22289,914	20	40.5022,189	9.7008863	3150
41	4490,591	9.6523035	2513	10.3476963	22277,901	19	41.5025,832	9.7012008	3147
42	4493,190	9.6525548	2511	10.3474445	22265,903	18	42.5029,476	9.7015152	3147
43	4495,785	9.6528059	2509	10.3471941	22253,925	17	43.5033,121	9.7018297	3145
44	4498,387	9.6530568	2507	10.3469432	22241,966	16	44.5036,768	9.7021441	3144
45	4500,984	9.6533075	2506	10.3466925	22229,925	15	45.5040,415	9.7024585	3142
46	4503,582	9.6535581	2503	10.3464419	22217,901	14	46.5044,063	9.7027728	3141
47	4506,179	9.6538084	2502	10.3461916	22205,893	13	47.5047,713	9.7030874	3140
48	4508,775	9.6540586	2500	10.3459414	22193,901	12	48.5051,363	9.7034020	3139
49	4511,372	9.6543086	2498	10.3456914	22181,925	11	49.5055,015	9.7037165	3137
50	4513,967	9.6545584	2497	10.3454416	22169,966	10	50.5058,668	9.7040312	3135
51	4516,563	9.6548081	2494	10.3451919	22158,025	9	51.5062,322	9.7043457	3135
52	4519,158	9.6550575	2493	10.3449425	22146,091	8	52.5065,977	9.7046603	3133
53	4521,753	9.6553068	2491	10.3446932	22134,173	7	53.5069,633	9.7049750	3132
54	4524,347	9.6555559	2489	10.3444441	22122,271	6	54.5073,290	9.7052897	3130
55	4526,941	9.6558048	2488	10.3441952	22110,385	5	55.5076,948	9.7056047	3129
56	4529,535	9.6560536	2485	10.3439464	22098,514	4	56.5080,607	9.7059196	3128
57	4532,128	9.6563021	2484	10.3436979	22086,659	3	57.5084,267	9.7062348	3126
58	4534,721	9.6565505	2482	10.3434495	22074,821	2	58.5087,929	9.7065494	3125
59	4537,313	9.6567987	2481	10.3432013	22062,999	1	59.5091,591	9.7068643	3124
60	4539,905	9.6570468		10.3429532	22051,193	0	60.5095,254	9.7071795	
Co-fines			Diff.	L. Sec.	N. Sec.	M	Co-tangents		

# 63 Degrees

# 26 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines			M
3205	10.3118182	20503,038	50	C	11126,019	10.0463398	—	9.9536602	8987,947	60	C
3204	10.3114977	20487,910	59	1	11127,599	10.0464015	617	9.9535985	8986,665	59	616
3203	10.3111773	20473,800	58	2	11129,179	10.0464631	618	9.9535369	8985,389	58	619
3201	10.3108570	20457,708	57	3	11130,761	10.0465249	617	9.9534751	8984,112	57	618
3200	10.3105369	20442,634	56	4	11132,345	10.0465866	519	9.9534134	8982,834	56	519
3199	10.3102169	20427,578	55	5	11133,929	10.0466483	618	9.9533515	8981,555	55	618
3196	10.3098970	20412,540	54	6	11135,516	10.0467103	619	9.9532897	8980,276	54	619
3196	10.3095774	20397,519	53	7	11137,103	10.0467722	620	9.9532278	8978,996	53	620
3194	10.3092578	20382,517	52	8	11138,692	10.0468342	620	9.9531658	8977,715	52	620
3193	10.3089384	20367,532	51	9	11140,282	10.0468962	620	9.9531038	8976,433	51	620
3191	10.3086191	20352,565	50	10	11141,874	10.0469582	621	9.9530418	8975,151	50	621
3189	10.3083000	20337,615	49	11	11143,467	10.0470203	622	9.9529797	8973,868	49	622
3189	10.3079811	20322,683	48	12	11145,062	10.0470823	622	9.9529175	8972,584	48	622
3187	10.3076622	20307,769	47	13	11146,658	10.0471447	622	9.9528553	8971,299	47	622
3185	10.3073435	20292,873	46	14	11148,255	10.0472069	623	9.9527931	8970,014	46	623
3184	10.3070250	20277,994	45	15	11149,854	10.0472692	623	9.9527308	8968,727	45	623
3183	10.3067066	20263,133	44	16	11151,454	10.0473315	624	9.9526685	8967,440	44	624
3181	10.3063883	20248,289	43	17	11153,056	10.0473939	624	9.9526061	8966,153	43	624
3180	10.3060702	20233,462	42	18	11154,659	10.0474563	624	9.9525437	8964,864	42	624
3178	10.3057522	20218,654	41	19	11156,263	10.0475187	625	9.9524813	8963,575	41	625
3177	10.3054344	20203,862	40	20	11157,869	10.0475812	626	9.9524188	8962,285	40	626
3176	10.3051167	20189,088	39	21	11159,476	10.0476437	626	9.9523562	8960,994	39	626
3174	10.3047991	20174,331	38	22	11161,084	10.0477064	627	9.9522936	8959,703	38	627
3172	10.3044817	20159,592	37	23	11162,694	10.0477690	627	9.9522310	8958,411	37	627
3172	10.3041645	20144,869	36	24	11164,306	10.0478317	628	9.9521683	8957,118	36	628
3170	10.3038473	20130,164	35	25	11165,919	10.0478945	627	9.9521055	8955,824	35	627
3168	10.3035303	20115,477	34	26	11167,533	10.0479572	629	9.9520428	8954,529	34	629
3167	10.3032135	20100,806	33	27	11169,148	10.0480201	628	9.9519799	8953,234	33	628
3166	10.3028968	20086,153	32	28	11170,766	10.0480829	630	9.9519171	8951,938	32	630
3165	10.3025802	20071,516	31	29	11172,384	10.0481459	629	9.9518541	8950,641	31	629
3163	10.3022637	20056,897	30	30	11174,004	10.0482088	630	9.9517912	8949,344	30	630
3161	10.3019474	20042,295	29	31	11175,625	10.0482718	631	9.9517282	8948,045	29	631
3160	10.3016313	20027,710	28	32	11177,248	10.0483349	631	9.9516651	8946,746	28	631
3159	10.3013153	20013,142	27	33	11178,872	10.0483980	631	9.9516020	8945,446	27	631
3158	10.3009994	19998,590	26	34	11180,498	10.0484611	632	9.9515389	8944,146	26	632
3156	10.3006836	19984,056	25	35	11182,124	10.0485243	633	9.9514757	8942,844	25	633
3154	10.3003680	19969,539	24	36	11183,753	10.0485876	634	9.9514124	8941,542	24	634
3154	10.3000526	19955,038	23	37	11185,383	10.0486508	632	9.9513492	8940,240	23	632
3152	10.2997372	19940,554	22	38	11187,014	10.0487142	634	9.9512858	8938,936	22	634
3150	10.2994220	19926,087	21	39	11188,647	10.0487776	634	9.9512224	8937,632	21	634
3150	10.2991070	19911,637	20	40	11190,281	10.0488410	634	9.9511590	8936,326	20	634
3147	10.2987920	19897,204	19	41	11191,916	10.0489044	636	9.9510956	8935,021	19	636
3147	10.2984773	19882,787	18	42	11193,550	10.0489680	635	9.9510320	8933,714	18	635
3145	10.2981626	19868,387	17	43	11195,191	10.0490315	636	9.9509685	8932,406	17	636
3144	10.2978481	19854,003	16	44	11196,831	10.0490951	637	9.9509049	8931,098	16	637
3142	10.2975337	19839,636	15	45	11198,472	10.0491588	637	9.9508412	8929,789	15	637
3141	10.2972195	19825,286	14	46	11200,115	10.0492225	637	9.9507775	8928,480	14	637
3140	10.2969054	19810,952	13	47	11201,759	10.0492862	638	9.9507138	8927,169	13	638
3139	10.2965914	19796,635	12	48	11203,405	10.0493500	639	9.9506500	8925,856	12	639
3137	10.2962775	19782,334	11	49	11205,051	10.0494139	638	9.9505861	8924,546	11	638
3137	10.2959638	19768,050	10	50	11206,700	10.0494777	640	9.9505223	8923,234	10	640
3135	10.2956503	19753,782	9	51	11208,350	10.0495417	639	9.9504583	8921,920	9	639
3133	10.2953368	19739,531	8	52	11210,001	10.0496058	641	9.9503944	8920,606	8	641
3132	10.2950235	19725,296	7	53	11211,653	10.0496697	640	9.9503308	8919,291	7	640
3130	10.2947101	19711,077	6	54	11213,308	10.0497337	641	9.9502663	8917,975	6	641
3129	10.2943973	19696,874	5	55	11214,963	10.0497978	642	9.9502022	8916,659	5	642
3128	10.2940844	19682,688	4	56	11216,620	10.0498620	642	9.9501380	8915,342	4	642
3126	10.2937716	19668,518	3	57	11218,278	10.0499262	643	9.9500738	8914,024	3	643
3125	10.2934590	19654,364	2	58	11219,938	10.0499905	643	9.9500095	8912,705	2	643
3124	10.2931465	19640,227	1	59	11221,600	10.0500548	643	9.9499452	8911,385	1	643
	10.2928341	19626,105	0	60	11223,262	10.0501191	—	9.9498809	8910,065	0	—
Diff	L. Tang. N. Tan. M				Co-Secants			D	L. Sine N. Sire M		

# 63 Degrees

# 27 Degrees

N. Sine				L. Sine				Diff.				Co-secants				M.N. Tan.				L. Tan.				Diff.				
0	4539,905	9.6570468	2478	10.3429532	22026,893	60						0	5095,254	9.7071655	3122					0	5095,254	9.7071655	3122					
1	4542,497	9.6572946	2477	10.3427054	22014,326	59						1	5098,915	9.7074781	3121					1	5098,915	9.7074781	3121					
2	4545,088	9.6575423	2475	10.3424577	22001,775	58						2	5102,581	9.7077902	3120					2	5102,581	9.7077902	3120					
3	4547,679	9.6577898	2473	10.3422102	21989,240	57						3	5106,252	9.7081022	3119					3	5106,252	9.7081022	3119					
4	4550,269	9.6580371	2471	10.3419629	21976,721	56						4	5109,919	9.7084141	3117					4	5109,919	9.7084141	3117					
5	4552,859	9.6582842	2470	10.3417158	21964,219	55						5	5113,588	9.7087258	3116					5	5113,588	9.7087258	3116					
6	4555,449	9.6585312	2468	10.3414688	21951,733	54						6	5117,259	9.7090374	3114					6	5117,259	9.7090374	3114					
7	4558,038	9.6587780	2466	10.3412220	21939,262	53						7	5120,930	9.7093488	3113					7	5120,930	9.7093488	3113					
8	4560,627	9.6590246	2464	10.3409754	21926,808	52						8	5124,602	9.7096601	3112					8	5124,602	9.7096601	3112					
9	4563,216	9.6592710	2463	10.3407290	21914,370	51						9	5128,275	9.7099713	3111					9	5128,275	9.7099713	3111					
10	4565,804	9.6595173	2460	10.3404827	21901,947	50						10	5131,950	9.7102824	3109					10	5131,950	9.7102824	3109					
11	4568,392	9.6597633	2460	10.3402367	21889,541	49						11	5135,625	9.7105933	3108					11	5135,625	9.7105933	3108					
12	4570,979	9.6600093	2457	10.3399907	21877,150	48						12	5139,302	9.7109041	3107					12	5139,302	9.7109041	3107					
13	4573,566	9.6602550	2455	10.3397450	21864,775	47						13	5142,980	9.7112148	3106					13	5142,980	9.7112148	3106					
14	4576,153	9.6605005	2454	10.3394995	21852,417	46						14	5146,658	9.7115254	3104					14	5146,658	9.7115254	3104					
15	4578,739	9.6607459	2452	10.3392541	21840,074	45						15	5150,338	9.7118358	3103					15	5150,338	9.7118358	3103					
16	4581,325	9.6609911	2450	10.3390085	21827,746	44						16	5154,019	9.7121461	3102					16	5154,019	9.7121461	3102					
17	4583,910	9.6612361	2449	10.3387639	21815,435	43						17	5157,702	9.7124562	3100					17	5157,702	9.7124562	3100					
18	4586,496	9.6614810	2447	10.3385190	21803,139	42						18	5161,385	9.7127662	3099					18	5161,385	9.7127662	3099					
19	4589,080	9.6617257	2445	10.3382743	21790,859	41						19	5165,069	9.7130761	3098					19	5165,069	9.7130761	3098					
20	4591,665	9.6619702	2443	10.3380298	21778,595	40						20	5168,755	9.7133859	3097					20	5168,755	9.7133859	3097					
21	4594,248	9.6622145	2441	10.3377855	21766,346	39						21	5172,441	9.7136956	3095					21	5172,441	9.7136956	3095					
22	4596,832	9.6624586	2440	10.3375414	21754,113	38						22	5176,129	9.7140051	3094					22	5176,129	9.7140051	3094					
23	4599,415	9.6627026	2438	10.3372974	21741,895	37						23	5179,818	9.7143145	3092					23	5179,818	9.7143145	3092					
24	4601,998	9.6629464	2436	10.3370530	21729,693	36						24	5183,508	9.7146237	3091					24	5183,508	9.7146237	3091					
25	4604,580	9.6631900	2434	10.3368100	21717,506	35						25	5187,199	9.7149329	3090					25	5187,199	9.7149329	3090					
26	4607,162	9.6634335	2433	10.3365665	21705,335	34						26	5190,891	9.7152419	3089					26	5190,891	9.7152419	3089					
27	4609,744	9.6636768	2431	10.3363232	21693,180	33						27	5194,584	9.7155508	3087					27	5194,584	9.7155508	3087					
28	4612,325	9.6639199	2429	10.3360801	21681,040	32						28	5198,278	9.7158595	3086					28	5198,278	9.7158595	3086					
29	4614,906	9.6641628	2428	10.3358372	21668,915	31						29	5201,974	9.7161682	3085					29	5201,974	9.7161682	3085					
30	4617,486	9.6644056	2426	10.3355944	21656,806	30						30	5205,671	9.7164767	3084					30	5205,671	9.7164767	3084					
31	4620,066	9.6646482	2424	10.3353518	21644,712	29						31	5209,368	9.7167851	3082					31	5209,368	9.7167851	3082					
32	4622,646	9.6648906	2423	10.3351094	21632,633	28						32	5213,067	9.7170933	3081					32	5213,067	9.7170933	3081					
33	4625,225	9.6651329	2420	10.3348671	21620,570	27						33	5216,767	9.7174014	3080					33	5216,767	9.7174014	3080					
34	4627,804	9.6653749	2419	10.3346251	21608,522	26						34	5220,468	9.7177094	3079					34	5220,468	9.7177094	3079					
35	4630,382	9.6656168	2418	10.3343832	21596,489	25						35	5224,170	9.7180173	3078					35	5224,170	9.7180173	3078					
36	4632,960	9.6658586	2415	10.3341414	21584,471	24						36	5227,874	9.7183251	3076					36	5227,874	9.7183251	3076					
37	4635,538	9.6661001	2414	10.3338999	21572,469	23						37	5231,578	9.7186327	3075					37	5231,578	9.7186327	3075					
38	4638,115	9.6663415	2413	10.3336585	21560,482	22						38	5235,284	9.7189401	3074					38	5235,284	9.7189401	3074					
39	4640,692	9.6665828	2410	10.3334172	21548,510	21						39	5238,990	9.7192476	3073					39	5238,990	9.7192476	3073					
40	4643,269	9.6668238	2409	10.3331762	21536,553	20						40	5242,698	9.7195549	3071					40	5242,698	9.7195549	3071					
41	4645,845	9.6670647	2407	10.3329353	21524,611	19						41	5246,407	9.7198620	3070					41	5246,407	9.7198620	3070					
42	4648,420	9.6673054	2405	10.3326946	21512,684	18						42	5250,117	9.7201690	3069					42	5250,117	9.7201690	3069					
43	4650,996	9.6675459	2404	10.3324541	21500,772	17						43	5253,829	9.7204759	3068					43	5253,829	9.7204759	3068					
44	4653,571	9.6677863	2402	10.3322137	21488,875	16						44	5257,541	9.7207827	3066					44	5257,541	9.7207827	3066					
45	4656,145	9.6680265	2400	10.3319735	21476,993	15						45	5261,255	9.7210891	3065					45	5261,255	9.7210891	3065					
46	4658,719	9.6682665	2399	10.3317335	21465,127	14						46	5264,969	9.7213958	3064					46	5264,969	9.7213958	3064					
47	4661,293	9.6685064	2397	10.3314936	21453,275	13						47	5268,685	9.7217022	3063					47	5268,685	9.7217022	3063					
48	4663,866	9.6687461	2395	10.3312539	21441,438	12						48	5272,402	9.7220085	3062					48	5272,402	9.7220085	3062					
49	4666,439	9.6689856	2394	10.3310144	21429,615	11						49	5276,120	9.7223147	3060					49	5276,120	9.7223147	3060					
50	4669,012	9.6692250	2392	10.3307750	21417,808	10						50	5279,839	9.7226207	3059					50	5279,839	9.7226207	3059					
51	4671,584	9.6694642	2390	10.3305358	21406,015	9						51	5283,556	9.7229266	3058					51	5283,556	9.7229266	3058					
52	4674,156	9.6697032	2388	10.3302968	21394,238	8						52	5287,281	9.7232324	3057					52	5287,281	9.7232324	3057					
53	46																											

# 27 Degrees

Di	Co-tangents	M	N. Sec.	L. Sec.	D	Co-tines
	10.2928341		10.626,105			39.100,505
3122	10.2925219	1	10.626,100	10.0501191	644	39.0988809
3121	10.2922098	2	10.625,995	10.0501835	644	39.09498165
3120	10.2918978	3	10.625,990	10.0502479	645	39.09497521
3119	10.2915859	4	10.625,985	10.0503124	645	39.09496876
3117	10.2912742	5	10.625,980	10.0503770	646	39.09496230
3116	10.2909624	6	10.625,975	10.0504415	647	39.09495585
3114	10.2906505	7	10.625,970	10.0505062	646	39.09494938
3113	10.2903386	8	10.625,965	10.0505708	647	39.09494292
3112	10.2900267	9	10.625,960	10.0506355	648	39.09493645
3111	10.2897148	10	10.625,955	10.0507003	648	39.09492997
3109	10.2894029	11	10.625,950	10.0507651	649	39.09492349
3108	10.2890910	12	10.625,945	10.0508300	649	39.09491700
3107	10.2887791	13	10.625,940	10.0508949	649	39.09491051
3106	10.2884672	14	10.625,935	10.0509598	650	39.09490402
3105	10.2881553	15	10.625,930	10.0510248	651	39.09489752
3104	10.2878434	16	10.625,925	10.0510897	651	39.09489101
3103	10.2875315	17	10.625,920	10.0511546	652	39.09488450
3102	10.2872196	18	10.625,915	10.0512195	652	39.09487799
3101	10.2869077	19	10.625,910	10.0512844	653	39.09487147
3100	10.2865958	20	10.625,905	10.0513493	653	39.09486495
3099	10.2862839	21	10.625,900	10.0514142	654	39.09485842
3098	10.2859720	22	10.625,895	10.0514791	654	39.09485189
3097	10.2856601	23	10.625,890	10.0515440	655	39.09484535
3096	10.2853482	24	10.625,885	10.0516089	655	39.09483881
3095	10.2850363	25	10.625,880	10.0516738	656	39.09483227
3094	10.2847244	26	10.625,875	10.0517387	656	39.09482572
3093	10.2844125	27	10.625,870	10.0518036	657	39.09481916
3092	10.2841006	28	10.625,865	10.0518685	657	39.09481260
3091	10.2837887	29	10.625,860	10.0519334	658	39.09480604
3090	10.2834768	30	10.625,855	10.0519983	658	39.09479947
3089	10.2831649	31	10.625,850	10.0520632	659	39.09479289
3088	10.2828530	32	10.625,845	10.0521281	659	39.09478631
3087	10.2825411	33	10.625,840	10.0521930	660	39.09477973
3086	10.2822292	34	10.625,835	10.0522579	660	39.09477314
3085	10.2819173	35	10.625,830	10.0523228	661	39.09476655
3084	10.2816054	36	10.625,825	10.0523877	661	39.09475995
3083	10.2812935	37	10.625,820	10.0524526	662	39.09475335
3082	10.2809816	38	10.625,815	10.0525175	662	39.09474674
3081	10.2806697	39	10.625,810	10.0525824	663	39.09474013
3080	10.2803578	40	10.625,805	10.0526473	663	39.09473352
3079	10.2800459	41	10.625,800	10.0527122	664	39.09472689
3078	10.2797340	42	10.625,795	10.0527771	664	39.09472027
3077	10.2794221	43	10.625,790	10.0528420	665	39.09471364
3076	10.2791102	44	10.625,785	10.0529069	665	39.09470700
3075	10.2787983	45	10.625,780	10.0529718	666	39.09470036
3074	10.2784864	46	10.625,775	10.0530367	666	39.09469372
3073	10.2781745	47	10.625,770	10.0531016	667	39.09468707
3072	10.2778626	48	10.625,765	10.0531665	667	39.09468042
3071	10.2775507	49	10.625,760	10.0532314	668	39.09467376
3070	10.2772388	50	10.625,755	10.0532963	668	39.09466710
3069	10.2769269	51	10.625,750	10.0533612	669	39.09466043
3068	10.2766150	52	10.625,745	10.0534261	669	39.09465376
3067	10.2763031	53	10.625,740	10.0534910	670	39.09464708
3066	10.2759912	54	10.625,735	10.0535559	670	39.09464040
3065	10.2756793	55	10.625,730	10.0536208	671	39.09463371
3064	10.2753674	56	10.625,725	10.0536857	671	39.09462702
3063	10.2750555	57	10.625,720	10.0537506	672	39.09462032
3062	10.2747436	58	10.625,715	10.0538155	672	39.09461362
3061	10.2744317	59	10.625,710	10.0538804	673	39.09460692
3060	10.2741198	60	10.625,705	10.0539453	673	39.09460021
3059	10.2738079					39.09459349
3058	10.2734960					39.09458676
3057	10.2731841					39.09458002
3056	10.2728722					39.09457328
3055	10.2725603					39.09456653
3054	10.2722484					39.09455978
3053	10.2719365					39.09455303
3052	10.2716246					39.09454628
3051	10.2713127					39.09453953
3050	10.2710008					39.09453278
3049	10.2706889					39.09452603
3048	10.2703770					39.09451928
3047	10.2700651					39.09451253
3046	10.2697532					39.09450578
3045	10.2694413					39.09449903
3044	10.2691294					39.09449228
3043	10.2688175					39.09448553
3042	10.2685056					39.09447878
3041	10.2681937					39.09447203
3040	10.2678818					39.09446528
3039	10.2675699					39.09445853
3038	10.2672580					39.09445178
3037	10.2669461					39.09444503
3036	10.2666342					39.09443828
3035	10.2663223					39.09443153
3034	10.2660104					39.09442478
3033	10.2656985					39.09441803
3032	10.2653866					39.09441128
3031	10.2650747					39.09440453
3030	10.2647628					39.09439778
3029	10.2644509					39.09439103
3028	10.2641390					39.09438428
3027	10.2638271					39.09437753
3026	10.2635152					39.09437078
3025	10.2632033					39.09436403
3024	10.2628914					39.09435728
3023	10.2625795					39.09435053
3022	10.2622676					39.09434378
3021	10.2619557					39.09433703
3020	10.2616438					39.09433028
3019	10.2613319					39.09432353
3018	10.2610200					39.09431678
3017	10.2607081					39.09431003
3016	10.2603962					39.09430328
3015	10.2600843					39.09429653
3014	10.2597724					39.09428978
3013	10.2594605					39.09428303
3012	10.2591486					39.09427628
3011	10.2588367					39.09426953
3010	10.2585248					39.09426278
3009	10.2582129					39.09425603
3008	10.2579010					39.09424928
3007	10.2575891					39.09424253
3006	10.2572772					39.09423578
3005	10.2569653					39.09422903
3004	10.2566534					39.09422228
3003	10.2563415					39.09421553
3002	10.2560296					39.09420878
3001	10.2557177					39.09420203
3000	10.2554058					39.09419528

## 62 Degrees

# 28 Degrees

M	N. Sine	L. Sine	Diff.	Co-secants			M	N. Tan.	L. Tan.	Diff.
0	694,714	6716093	2375	10.3283907	21300,545	60	0	5317,094	9.7256744	3047
1	4697,284	6718468	2373	10.3281532	21288,899	59	1	5320,826	9.7259791	3044
2	4699,852	6722084	2372	10.3279159	21277,267	58	2	5324,559	9.7262837	3041
3	4702,419	6723213	2370	10.3276787	21265,651	57	3	5328,293	9.7265881	3044
4	4704,986	6725583	2369	10.3274417	21254,048	56	4	5332,029	9.7268925	3041
5	4707,553	6727952	2367	10.3272048	21242,460	55	5	5335,765	9.7271967	3042
6	4710,119	6730319	2365	10.3269681	21230,887	54	6	5339,503	9.7275008	3040
7	4712,685	6732684	2363	10.3267316	21219,328	53	7	5343,242	9.7278048	3035
8	4715,250	6735047	2362	10.3264953	21207,783	52	8	5346,981	9.7281087	3037
9	4717,815	6737409	2360	10.3262591	21196,253	51	9	5350,723	9.7284124	3037
10	4720,380	6739769	2359	10.3260231	21184,737	50	10	5354,465	9.7287161	3035
11	4722,944	6742128	2357	10.3257872	21173,235	49	11	5358,208	9.7290196	3034
12	4725,508	6744485	2355	10.3255515	21161,748	48	12	5361,953	9.7293230	3033
13	4728,071	6746840	2354	10.3253160	21150,274	47	13	5365,699	9.7296263	3032
14	4730,634	6749194	2352	10.3250806	21138,815	46	14	5369,446	9.7299295	3030
15	4733,197	6751546	2350	10.3248454	21127,371	45	15	5373,194	9.7302325	3029
16	4735,759	6753896	2345	10.3246104	21115,940	44	16	5376,943	9.7305354	3029
17	4738,321	6756245	2347	10.3243755	21104,523	43	17	5380,694	9.7308383	3027
18	4740,882	6758592	2345	10.3241408	21093,121	42	18	5384,445	9.7311410	3026
19	4743,443	6760937	2344	10.3239063	21081,733	41	19	5388,198	9.7314436	3024
20	4746,004	6763281	2342	10.3236719	21070,359	40	20	5391,952	9.7317460	3024
21	4748,564	6765623	2340	10.3234377	21058,998	39	21	5395,707	9.7320484	3021
22	4751,124	6767963	2339	10.3232037	21047,652	38	22	5399,464	9.7323506	3021
23	4753,683	6770302	2338	10.3229698	21036,320	37	23	5403,221	9.7326527	3020
24	4756,242	6772640	2335	10.3227360	21025,002	36	24	5406,980	9.7329547	3019
25	4758,801	6774975	2334	10.3225025	21013,698	35	25	5410,740	9.7332566	3018
26	4761,359	6777309	2333	10.3222691	21002,408	34	26	5414,501	9.7335584	3017
27	4763,917	6779642	2330	10.3220358	20991,131	33	27	5418,263	9.7338601	3015
28	4766,474	6781972	2329	10.3218028	20979,869	32	28	5422,027	9.7341616	3015
29	4769,031	6784301	2328	10.3215699	20968,620	31	29	5425,791	9.7344631	3015
30	4771,588	6786629	2326	10.3213371	20957,385	30	30	5429,557	9.7347644	3012
31	4774,144	6788955	2324	10.3211045	20946,164	29	31	5433,324	9.7350656	3011
32	4776,700	6791275	2323	10.3208721	20934,957	28	32	5437,092	9.7353667	3010
33	4779,255	6793592	2321	10.3206398	20923,764	27	33	5440,862	9.7356677	3008
34	4781,810	6795923	2320	10.3204077	20912,584	26	34	5444,632	9.7359685	3008
35	4784,364	6798243	2317	10.3201757	20901,418	25	35	5448,404	9.7362693	3006
36	4786,919	6800560	2317	10.3199440	20890,265	24	36	5452,177	9.7365699	3006
37	4789,472	6802877	2314	10.3197123	20879,127	23	37	5455,951	9.7368705	3004
38	4792,026	6805191	2313	10.3194809	20868,002	22	38	5459,727	9.7371709	3003
39	4794,579	6807504	2312	10.3192496	20856,890	21	39	5463,503	9.7374712	3003
40	4797,131	6809816	2310	10.3190184	20845,792	20	40	5467,281	9.7377714	3001
41	4799,683	6812126	2308	10.3187874	20834,708	19	41	5471,060	9.7380715	2999
42	4802,235	6814434	2307	10.3185566	20823,637	18	42	5474,840	9.7383714	2999
43	4804,786	6816741	2305	10.3183259	20812,580	17	43	5478,621	9.7386713	2997
44	4807,337	6819046	2303	10.3180954	20801,536	16	44	5482,404	9.7389710	2997
45	4809,888	6821349	2302	10.3178651	20790,506	15	45	5486,188	9.7392707	2995
46	4812,438	6823651	2301	10.3176349	20779,489	14	46	5489,973	9.7395702	2994
47	4814,987	6825952	2298	10.3174048	20768,486	13	47	5493,759	9.7398696	2993
48	4817,537	6828250	2298	10.3171750	20757,496	12	48	5497,547	9.7401689	2994
49	4820,086	6830548	2295	10.3169452	20746,519	11	49	5501,335	9.7404681	2991
50	4822,634	6832843	2294	10.3167157	20735,556	10	50	5505,125	9.7407672	2990
51	4825,182	6835137	2293	10.3164863	20724,606	9	51	5508,916	9.7410662	2988
52	4827,730	6837430	2290	10.3162570	20713,670	8	52	5512,708	9.7413650	2987
53	4830,277	6839720	2290	10.3160280	20702,746	7	53	5516,502	9.7416639	2986
54	4832,824	6842010	2287	10.3157990	20691,836	6	54	5520,297	9.7419624	2985
55	4835,370	6844297	2286	10.3155703	20680,940	5	55	5524,093	9.7422609	2983
56	4837,916	6846583	2285	10.3153417	20670,056	4	56	5527,890	9.7425594	2983
57	4840,462	6848868	2283	10.3151132	20659,186	3	57	5531,688	9.7428577	2981
58	4843,007	6851151	2281	10.3148849	20648,328	2	58	5535,488	9.7431558	2981
59	4845,552	6853432	2280	10.3146568	20637,484	1	59	5539,288	9.7434540	2980
60	4848,096	6855712	2280	10.3144288	20626,653	0	60	5543,091	9.7437520	2979
Co-fines				L. Sec.	N. Sec.	M	Co-tangents			

# 28 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-lines	
	10.2743256	18807,265	60	0	11325,701	10.0540651	9.9459349	8829,470 60
1047	10.2740209	18794,074	59	1	11327,453	10.0541323	9.9458677	8828,110 59
1046	10.2737163	18780,898	58	2	11329,207	10.0541995	9.9458005	8826,743 58
1045	10.2734119	18767,736	57	3	11330,962	10.0542668	9.9457332	8825,370 57
1044	10.2731075	18754,588	56	4	11332,719	10.0543341	9.9456659	8824,000 56
1043	10.2728033	18741,455	55	5	11334,478	10.0544015	9.9455985	8822,638 55
1042	10.2724992	18728,336	54	6	11336,238	10.0544690	9.9455310	8821,269 54
1041								
1040	10.2721952	18715,231	53	7	11337,999	10.0545364	9.9454636	8819,898 53
1039	10.2718913	18702,141	52	8	11339,762	10.0546040	9.9453960	8818,527 52
1038	10.2715876	18689,065	51	9	11341,527	10.0546715	9.9453285	8817,155 51
1037	10.2712839	18676,003	50	10	11343,293	10.0547391	9.9452609	8815,782 50
1036	10.2709804	18662,955	49	11	11345,060	10.0548068	9.9451932	8814,409 49
1035	10.2706770	18649,921	48	12	11346,829	10.0548745	9.9451255	8813,035 48
1034								
1033	10.2703737	18636,902	47	13	11348,600	10.0549422	9.9450577	8811,660 47
1032	10.2700705	18623,896	46	14	11350,372	10.0550101	9.9449899	8810,284 46
1031	10.2697675	18610,905	45	15	11352,146	10.0550780	9.9449220	8808,907 45
1030	10.2694646	18597,928	44	16	11353,921	10.0551459	9.9448541	8807,530 44
1029	10.2691617	18584,965	43	17	11355,697	10.0552138	9.9447862	8806,152 43
1028	10.2688590	18572,015	42	18	11357,476	10.0552818	9.9447182	8804,774 42
1027								
1026	10.2685564	18559,080	41	19	11359,255	10.0553499	9.9446501	8803,394 41
1025	10.2682540	18546,159	40	20	11361,036	10.0554179	9.9445821	8802,014 40
1024	10.2679516	18533,252	39	21	11362,819	10.0554861	9.9445139	8800,633 39
1023	10.2676494	18520,358	38	22	11364,603	10.0555543	9.9444457	8799,251 38
1022	10.2673473	18507,479	37	23	11366,389	10.0556225	9.9443775	8797,869 37
1021	10.2670453	18494,613	36	24	11368,176	10.0556908	9.9443092	8796,486 36
1020								
1019	10.2667434	18481,761	35	25	11369,965	10.0557591	9.9442409	8795,102 35
1018	10.2664416	18468,923	34	26	11371,755	10.0558275	9.9441725	8793,717 34
1017	10.2661399	18456,099	33	27	11373,547	10.0558959	9.9441041	8792,332 33
1016	10.2658384	18443,289	32	28	11375,341	10.0559644	9.9440356	8790,946 32
1015	10.2655369	18430,492	31	29	11377,135	10.0560329	9.9439671	8789,559 31
1014	10.2652356	18417,709	30	30	11378,932	10.0561015	9.9438985	8788,171 30
1013								
1012	10.2649344	18404,940	29	31	11380,730	10.0561701	9.9438299	8786,783 29
1011	10.2646333	18392,184	28	32	11382,529	10.0562388	9.9437612	8785,394 28
1010	10.2643323	18379,442	27	33	11384,330	10.0563075	9.9436925	8784,004 27
1009	10.2640315	18366,713	26	34	11386,133	10.0563762	9.9436238	8782,613 26
1008	10.2637307	18353,999	25	35	11387,937	10.0564451	9.9435549	8781,222 25
1007	10.2634301	18341,297	24	36	11389,742	10.0565139	9.9434861	8779,830 24
1006								
1005	10.2631295	18328,610	23	37	11391,550	10.0565828	9.9434172	8778,437 23
1004	10.2628291	18315,936	22	38	11393,358	10.0566518	9.9433482	8777,043 22
1003	10.2625288	18303,275	21	39	11395,169	10.0567208	9.9432792	8775,649 21
1002	10.2622286	18290,628	20	40	11396,980	10.0567898	9.9432102	8774,254 20
1001	10.2619285	18277,994	19	41	11398,794	10.0568589	9.9431411	8772,858 19
1000	10.2616286	18265,374	18	42	11400,608	10.0569280	9.9430720	8771,462 18
999								
998	10.2613287	18252,767	17	43	11402,425	10.0569972	9.9430028	8770,064 17
997	10.2610290	18240,173	16	44	11404,243	10.0570665	9.9429335	8768,666 16
996	10.2607293	18227,593	15	45	11406,062	10.0571357	9.9428643	8767,268 15
995	10.2604298	18215,026	14	46	11407,883	10.0572051	9.9427949	8765,868 14
994	10.2601304	18202,473	13	47	11409,706	10.0572745	9.9427255	8764,468 13
993	10.2598311	18189,932	12	48	11411,530	10.0573439	9.9426561	8763,067 12
992								
991	10.2595319	18177,405	11	49	11413,356	10.0574134	9.9425866	8761,665 11
990	10.2592328	18164,892	10	50	11415,183	10.0574829	9.9425171	8760,263 10
989	10.2589338	18152,391	9	51	11417,012	10.0575524	9.9424476	8758,859 9
988	10.2586350	18139,904	8	52	11418,842	10.0576221	9.9423779	8757,455 8
987	10.2583362	18127,430	7	53	11420,674	10.0576917	9.9423083	8756,051 7
986	10.2580376	18114,969	6	54	11422,507	10.0577614	9.9422386	8754,645 6
985								
984	10.2577391	18102,521	5	55	11424,342	10.0578312	9.9421688	8753,239 5
983	10.2574406	18090,086	4	56	11426,179	10.0579010	9.9420990	8751,832 4
982	10.2571423	18077,664	3	57	11428,017	10.0579709	9.9420291	8750,425 3
981	10.2568441	18065,256	2	58	11429,857	10.0580408	9.9419592	8749,016 2
980	10.2565460	18052,860	1	59	11431,698	10.0581107	9.9418893	8747,607 1
979	10.2562480	18040,478	0	60	11433,541	10.0581807	9.9418193	8746,197 0
Diff.	L. Tang.	N. Tan.	M		Co-secants		D	L. Sine N. Sine M

# 29 Degrees

h	N. Sine	L. Sine	Diff.	Co-secants			M	N. Tan.	L. Tan.	Diff.
				10.3	10.6	10.9				
1	4848,096	9.6855712	2279	10.3144288	20626,653	60	1	5543,091	9.7437520	2979
2	4850,640	9.6857991	2276	10.3142000	20615,836	59	2	5546,894	9.7440499	2977
3	4853,184	9.6860267	2275	10.3139731	20605,031	58	3	5550,698	9.7443476	2977
4	4855,727	9.6862542	2274	10.3137458	20594,239	57	4	5554,504	9.7446453	2975
5	4858,270	9.6864816	2272	10.3135184	20583,400	56	5	5558,311	9.7449428	2973
6	4860,812	9.6867088	2271	10.3132912	20572,695	55	6	5562,119	9.7452403	2973
7	4863,354	9.6869351	2269	10.3130641	20561,942	54	7	5565,929	9.7455370	2973
8	4865,895	9.6871628	2267	10.3128372	20551,203	53	8	5569,739	9.7458345	2971
9	4868,436	9.6873895	2266	10.3126105	20540,476	52	9	5573,551	9.7461320	2970
10	4870,977	9.6876161	2264	10.3123839	20529,762	51	10	5577,364	9.7464290	2969
11	4873,517	9.6878425	2263	10.3121575	20519,061	50	11	5581,179	9.7467259	2968
12	4876,057	9.6880688	2261	10.3119312	20508,373	49	12	5584,994	9.7470227	2967
13	4878,597	9.6882949	2260	10.3117051	20497,698	48	13	5588,811	9.7473194	2966
14	4881,136	9.6885209	2258	10.3114791	20487,036	47	14	5592,629	9.7476160	2965
15	4883,674	9.6887467	2256	10.3112533	20476,386	46	15	5596,449	9.7479125	2964
16	4886,212	9.6889723	2255	10.3110277	20465,750	45	16	5600,269	9.7482089	2963
17	4888,750	9.6891978	2254	10.3108022	20455,126	44	17	5604,091	9.7485052	2961
18	4891,288	9.6894232	2252	10.3105768	20444,515	43	18	5607,914	9.7488013	2961
19	4893,825	9.6896484	2250	10.3103516	20433,916	42	19	5611,738	9.7490974	2960
20	4896,361	9.6898734	2249	10.3101266	20423,330	41	20	5615,564	9.7493934	2958
21	4898,897	9.6900983	2248	10.3099017	20412,757	40	21	5619,391	9.7496892	2958
22	4901,433	9.6903231	2245	10.3096769	20402,197	39	22	5623,219	9.7499850	2956
23	4903,968	9.6905476	2245	10.3094524	20391,649	38	23	5627,048	9.7502806	2956
24	4906,503	9.6907721	2243	10.3092275	20381,114	37	24	5630,879	9.7505762	2954
25	4909,038	9.6909964	2241	10.3090036	20370,592	36	25	5634,710	9.7508716	2953
26	4911,572	9.6912205	2240	10.3087795	20360,082	35	26	5638,543	9.7511666	2953
27	4914,105	9.6914445	2238	10.3085555	20349,585	34	27	5642,378	9.7514622	2951
28	4916,638	9.6916683	2236	10.3083317	20339,100	33	28	5646,213	9.7517573	2950
29	4919,171	9.6918919	2236	10.3081081	20328,628	32	29	5650,050	9.7520523	2948
30	4921,704	9.6921155	2233	10.3078845	20318,168	31	30	5653,888	9.7523472	2948
31	4924,236	9.6923388	2232	10.3076612	20307,720	30	31	5657,728	9.7526420	2948
32	4926,767	9.6925620	2231	10.3074380	20297,286	29	32	5661,568	9.7529368	2946
33	4929,298	9.6927851	2229	10.3072149	20286,863	28	33	5665,410	9.7532314	2945
34	4931,829	9.6930080	2228	10.3069920	20276,453	27	34	5669,254	9.7535259	2944
35	4934,359	9.6932308	2226	10.3067692	20266,056	26	35	5673,098	9.7538203	2943
36	4936,889	9.6934534	2224	10.3065466	20255,670	25	36	5676,944	9.7541146	2942
37	4939,419	9.6936758	2223	10.3063242	20245,297	24	37	5680,791	9.7544088	2941
38	4941,948	9.6938981	2222	10.3061019	20234,937	23	38	5684,639	9.7547029	2940
39	4944,477	9.6941203	2220	10.3058797	20224,589	22	39	5688,488	9.7549969	2939
40	4947,005	9.6943423	2219	10.3056577	20214,253	21	40	5692,339	9.7552908	2938
41	4949,532	9.6945642	2217	10.3054358	20203,929	20	41	5696,191	9.7555846	2937
42	4952,060	9.6947859	2215	10.3052141	20193,618	19	42	5700,045	9.7558783	2935
43	4954,587	9.6950074	2214	10.3049920	20183,318	18	43	5703,899	9.7561718	2935
44	4957,113	9.6952288	2213	10.3047712	20173,031	17	44	5707,755	9.7564653	2934
45	4959,639	9.6954501	2211	10.3045499	20162,756	16	45	5711,612	9.7567587	2933
46	4962,165	9.6956712	2210	10.3043288	20152,494	15	46	5715,471	9.7570520	2932
47	4964,690	9.6958922	2208	10.3041078	20142,243	14	47	5719,331	9.7573452	2931
48	4967,215	9.6961130	2206	10.3038870	20132,003	13	48	5723,192	9.7576383	2930
49	4969,740	9.6963336	2205	10.3036666	20121,779	12	49	5727,054	9.7579313	2929
50	4972,264	9.6965541	2204	10.3034459	20111,564	11	50	5730,918	9.7582242	2928
51	4974,787	9.6967745	2202	10.3032255	20101,362	10	51	5734,783	9.7585170	2926
52	4977,310	9.6969947	2201	10.3030053	20091,172	9	52	5738,649	9.7588096	2926
53	4979,833	9.6972148	2199	10.3027852	20080,994	8	53	5742,516	9.7591022	2925
54	4982,355	9.6974347	2198	10.3025653	20070,828	7	54	5746,385	9.7593947	2924
55	4984,877	9.6976545	2196	10.3023455	20060,674	6	55	5750,255	9.7596871	2923
56	4987,399	9.6978741	2195	10.3021255	20050,532	5	56	5754,126	9.7599794	2922
57	4989,920	9.6980936	2193	10.3019064	20040,402	4	57	5757,999	9.7602716	2921
58	4992,441	9.6983125	2192	10.3016871	20030,283	3	58	5761,873	9.7605637	2920
59	4994,961	9.6985321	2190	10.3014675	20020,177	2	59	5765,748	9.7608557	2919
60	4997,481	9.6987511	2189	10.3012480	20010,083	1	60	5769,625	9.7611476	2918
	5000,000	9.6989700		10.3010280	20000,000	0		5773,503	9.7614394	
Co-fines				Diff.	L. Sec.	N. Sec.	M	Co-angents		

00 Degrees

# 29 Degrees

Diff	Co-rangents			M	N. Sec.	L. Sec.	D	Co-fines		
	10.256248c	18040,478	6c		11433,541	10.0581807		9.9418193	8746,197	10
2979	10.2559501	18028,108	59	1	11435,385	10.0582508	701	9.9417492	8744,786	59
2977	10.2556524	18015,751	58	2	11437,231	10.0583209	701	9.9416791	8743,375	58
2975	10.2553547	18003,408	57	3	11439,078	10.0583910	701	9.9416090	8741,963	57
2973	10.2550570	17991,077	56	4	11440,927	10.0584612	702	9.9415388	8740,552	56
2971	10.2547593	17978,759	55	5	11442,778	10.0585313	703	9.9414685	8739,137	55
2973	10.2544624	17966,454	54	6	11444,630	10.0586018	703	9.9413982	8737,722	54
2973	10.2541651	17954,162	53	7	11446,484	10.0586721	703	9.9413279	8736,307	53
2971	10.2538680	17941,883	52	8	11448,339	10.0587425	704	9.9412575	8734,891	52
2970	10.2535710	17929,616	51	9	11450,196	10.0588129	704	9.9411871	8733,475	51
2969	10.2532741	17917,362	50	10	11452,055	10.0588833	705	9.9411166	8732,058	50
2968	10.2529773	17905,121	49	11	11453,913	10.0589539	705	9.9410461	8730,642	49
2967	10.2526806	17892,893	48	12	11455,776	10.0590245	707	9.9409755	8729,221	48
2966	10.2523840	17880,678	47	13	11457,639	10.0590952	707	9.9409048	8727,801	47
2965	10.2520875	17868,475	46	14	11459,504	10.0591658	706	9.9408342	8726,381	46
2964	10.2517911	17856,285	45	15	11461,371	10.0592363	708	9.9407634	8724,960	45
2963	10.2514948	17844,107	44	16	11463,238	10.0593073	707	9.9406927	8723,538	44
2961	10.2511987	17831,943	43	17	11465,108	10.0593781	708	9.9406219	8722,116	43
2961	10.2509026	17819,790	42	18	11466,979	10.0594490	709	9.9405510	8720,693	42
2960	10.2506066	17807,651	41	19	11468,852	10.0595199	709	9.9404801	8719,269	41
2958	10.2503108	17795,524	40	20	11470,726	10.0595909	710	9.9404091	8717,844	40
2958	10.2500150	17783,409	39	21	11472,602	10.0596619	710	9.9403381	8716,419	39
2956	10.2497194	17771,307	38	22	11474,475	10.0597330	711	9.9402670	8714,993	38
2956	10.2494238	17759,218	37	23	11476,358	10.0598041	711	9.9401959	8713,566	37
2954	10.2491284	17747,141	36	24	11478,239	10.0598752	711	9.9401248	8712,138	36
2953	10.2488331	17735,076	35	25	11480,121	10.0599465	713	9.9400535	8710,710	35
2953	10.2485378	17723,024	34	26	11482,005	10.0600177	712	9.9399823	8709,281	34
2951	10.2482427	17710,985	33	27	11483,890	10.0600890	713	9.9399110	8707,851	33
2950	10.2479471	17698,958	32	28	11485,777	10.0601604	714	9.9398396	8706,420	32
2949	10.2476528	17686,943	31	29	11487,665	10.0602318	714	9.9397682	8704,989	31
2948	10.2473580	17674,940	30	30	11489,555	10.0603032	714	9.9396968	8703,557	30
2948	10.2470632	17662,950	29	31	11491,447	10.0603747	715	9.9396253	8702,124	29
2946	10.2467686	17650,972	28	32	11493,340	10.0604463	716	9.9395537	8700,691	28
2945	10.2464741	17639,007	27	33	11495,235	10.0605179	716	9.9394821	8699,256	27
2944	10.2461797	17627,053	26	34	11497,132	10.0605895	716	9.9394105	8697,821	26
2943	10.2458854	17615,112	25	35	11499,030	10.0606612	717	9.9393388	8696,386	25
2942	10.2455912	17603,183	24	36	11500,930	10.0607329	717	9.9392671	8694,949	24
2941	10.2452971	17591,267	23	37	11502,831	10.0608047	718	9.9391953	8693,512	23
2940	10.2450031	17579,362	22	38	11504,734	10.0608766	719	9.9391234	8692,074	22
2939	10.2447092	17567,470	21	39	11506,638	10.0609485	719	9.9390515	8690,636	21
2938	10.2444154	17555,590	20	40	11508,544	10.0610204	720	9.9389796	8689,196	20
2937	10.2441217	17543,722	19	41	11510,452	10.0610924	720	9.9389076	8687,755	19
2935	10.2438282	17531,866	18	42	11512,361	10.0611644	721	9.9388356	8686,315	18
2935	10.2435347	17520,023	17	43	11514,272	10.0612365	721	9.9387635	8684,874	17
2934	10.2432413	17508,191	16	44	11516,185	10.0613086	721	9.9386914	8683,431	16
2933	10.2429480	17496,371	15	45	11518,099	10.0613808	722	9.9386192	8681,988	15
2932	10.2426548	17484,564	14	46	11520,015	10.0614530	722	9.9385470	8680,544	14
2931	10.2423617	17472,768	13	47	11521,932	10.0615253	723	9.9384747	8679,100	13
2930	10.2420687	17460,984	12	48	11523,851	10.0615976	723	9.9384024	8677,655	12
2929	10.2417758	17449,213	11	49	11525,772	10.0616700	724	9.9383300	8676,209	11
2928	10.2414830	17437,453	10	50	11527,694	10.0617424	724	9.9382576	8674,762	10
2926	10.2411904	17425,705	9	51	11529,618	10.0618149	725	9.9381851	8673,314	9
2925	10.2408978	17413,969	8	52	11531,543	10.0618874	725	9.9381126	8671,866	8
2924	10.2406053	17402,245	7	53	11533,470	10.0619600	726	9.9380400	8670,417	7
2924	10.2403129	17390,533	6	54	11535,399	10.0620326	726	9.9379674	8668,967	6
2923	10.2400206	17378,833	5	55	11537,329	10.0621053	727	9.9378947	8667,517	5
2922	10.2397284	17367,144	4	56	11539,261	10.0621780	727	9.9378220	8666,066	4
2921	10.2394363	17355,468	3	57	11541,195	10.0622508	728	9.9377492	8664,614	3
2920	10.2391443	17343,803	2	58	11543,130	10.0623236	728	9.9376764	8663,161	2
2919	10.2388524	17332,149	1	59	11545,067	10.0623965	729	9.9376035	8661,708	1
2918	10.2385606	17320,508	0	60	11547,005	10.0624694	729	9.9375306	8660,254	0
Diff.	L. Tang.	N. Tan.	M		Co-fecants	D		L. Sine	N. Sine	M

60 Degrees

# 30 Degrees

M. N. Sine	L. Sine	Diff	Co-secants		M. N. Tan.	L. Tan.	Diff
0	5000,000	9,6989700	10,3010300	20000,000	0	5773,509	9,7614394
1	5002,519	9,6991887	10,3008113	19989,929	1	5777,382	9,7617311
2	5005,037	9,6994073	10,3005927	19979,870	2	5781,262	9,7620227
3	5007,556	9,6996258	10,3003742	19969,823	3	5785,144	9,7623142
4	5010,073	9,6998441	10,3001559	19959,788	4	5789,027	9,7626056
5	5012,591	9,7000622	10,2999378	19949,764	5	5792,912	9,7628969
6	5015,107	9,7002802	10,2997198	19939,753	6	5796,797	9,7631881
7	5017,624	9,7004981	10,2995019	19929,752	7	5800,684	9,7634792
8	5020,140	9,7007158	10,2992842	19919,764	8	5804,573	9,7637702
9	5022,655	9,7009334	10,2990666	19909,787	9	5808,462	9,7640612
10	5025,170	9,7011508	10,2988492	19899,822	10	5812,353	9,7643520
11	5027,685	9,7013681	10,2986319	19889,869	11	5816,245	9,7646427
12	5030,199	9,7015852	10,2984148	19879,927	12	5820,139	9,7649334
13	5032,713	9,7018022	10,2981978	19869,997	13	5824,034	9,7652239
14	5035,227	9,7020190	10,2979810	19860,080	14	5827,930	9,7655143
15	5037,740	9,7022357	10,2977643	19850,172	15	5831,828	9,7658047
16	5040,252	9,7024523	10,2975477	19840,276	16	5835,726	9,7660949
17	5042,765	9,7026687	10,2973313	19830,393	17	5839,627	9,7663851
18	5045,276	9,7028849	10,2971151	19820,520	18	5843,528	9,7666751
19	5047,788	9,7031011	10,2968989	19810,659	19	5847,431	9,7669651
20	5050,298	9,7033170	10,2966830	19800,810	20	5851,335	9,7672550
21	5052,809	9,7035329	10,2964671	19790,972	21	5855,241	9,7675448
22	5055,319	9,7037486	10,2962514	19781,146	22	5859,148	9,7678344
23	5057,828	9,7039641	10,2960359	19771,331	23	5863,056	9,7681240
24	5060,338	9,7041795	10,2958205	19761,527	24	5866,965	9,7684135
25	5062,846	9,7043947	10,2956053	19751,735	25	5870,876	9,7687029
26	5065,355	9,7046099	10,2953901	19741,954	26	5874,788	9,7689922
27	5067,863	9,7048248	10,2951752	19732,185	27	5878,702	9,7692814
28	5070,370	9,7050397	10,2949603	19722,427	28	5882,616	9,7695705
29	5072,877	9,7052543	10,2947457	19712,680	29	5886,533	9,7698596
30	5075,384	9,7054689	10,2945311	19702,944	30	5890,450	9,7701485
31	5077,890	9,7056833	10,2943167	19693,220	31	5894,369	9,7704373
32	5080,396	9,7058973	10,2941025	19683,507	32	5898,289	9,7707261
33	5082,901	9,7061116	10,2938884	19673,805	33	5902,211	9,7710147
34	5085,406	9,7063256	10,2936744	19664,114	34	5906,134	9,7713033
35	5087,910	9,7065394	10,2934606	19654,435	35	5910,058	9,7715917
36	5090,414	9,7067531	10,2932469	19644,767	36	5913,984	9,7718801
37	5092,918	9,7069667	10,2930333	19635,110	37	5917,910	9,7721684
38	5095,421	9,7071801	10,2928199	19625,464	38	5921,839	9,7724566
39	5097,924	9,7073933	10,2926067	19615,829	39	5925,768	9,7727447
40	5100,426	9,7076064	10,2923936	19606,206	40	5929,699	9,7730327
41	5102,928	9,7078194	10,2921806	19596,593	41	5933,632	9,7733206
42	5105,429	9,7080323	10,2919677	19586,992	42	5937,565	9,7736084
43	5107,930	9,7082450	10,2917550	19577,402	43	5941,491	9,7738961
44	5110,431	9,7084575	10,2915425	19567,822	44	5945,420	9,7741838
45	5112,931	9,7086699	10,2913301	19558,254	45	5949,350	9,7744713
46	5115,431	9,7088822	10,2911178	19548,697	46	5953,281	9,7747588
47	5117,930	9,7090943	10,2909057	19539,150	47	5957,215	9,7750462
48	5120,429	9,7093063	10,2906937	19529,615	48	5961,150	9,7753334
49	5122,927	9,7095182	10,2904818	19520,091	49	5965,084	9,7756206
50	5125,425	9,7097299	10,2902701	19510,577	50	5969,019	9,7759077
51	5127,923	9,7099415	10,2900585	19501,075	51	5973,030	9,7761947
52	5130,420	9,7101529	10,2898471	19491,583	52	5977,048	9,7764816
53	5132,916	9,7103642	10,2896358	19482,102	53	5981,067	9,7767685
54	5135,413	9,7105753	10,2894247	19472,632	54	5985,087	9,7770552
55	5137,908	9,7107863	10,2892137	19463,173	55	5989,108	9,7773418
56	5140,404	9,7109972	10,2890028	19453,725	56	5993,129	9,7776284
57	5142,899	9,7112080	10,2887920	19444,288	57	5997,150	9,7779149
58	5145,393	9,7114186	10,2885814	19434,861	58	6001,171	9,7782012
59	5147,887	9,7116293	10,2883710	19425,445	59	6005,193	9,7784875
60	5150,381	9,7118393	10,2881607	19416,040	60	6009,216	9,7787737
Co-fines		Diff	L. Sec. N. Sec. M		Co-tangents		Diff

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# 30 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	D	Co-sines	
	10.2385606	17320.508	50	11547.005	10.0624694		9.9375306	8660.254
2917	10.2382689	17308.878	59	11548.945	10.0625423	729	9.9374577	8658.799
2916	10.2379773	17297.266	58	11550.887	10.0626153	730	9.9373847	8657.344
2915	10.2376858	17285.654	57	11552.830	10.0626884	731	9.9373116	8655.887
2914	10.2373944	17274.046	56	11554.775	10.0627615	731	9.9372385	8654.430
2913	10.2371031	17262.447	55	11556.722	10.0628347	732	9.9371653	8652.973
2912	10.2368119	17250.855	54	11558.670	10.0629079	732	9.9370921	8651.514
2911	10.2365208	17239.263	53	11560.620	10.0629811	732	9.9370189	8650.055
2910	10.2362298	17227.677	52	11562.572	10.0630544	733	9.9369456	8648.595
2910	10.2359388	17216.091	51	11564.525	10.0631278	734	9.9368722	8647.134
2908	10.2356480	17204.506	50	11566.480	10.0632012	734	9.9367988	8645.673
2907	10.2353573	17192.922	49	11568.436	10.0632746	734	9.9367254	8644.211
2907	10.2350666	17181.342	48	11570.394	10.0633481	735	9.9366519	8642.748
2905	10.2347761	17170.760	47	11572.354	10.0634217	736	9.9365783	8641.284
2904	10.2344857	17159.175	46	11574.315	10.0634953	736	9.9365047	8639.820
2904	10.2341953	17147.593	45	11576.278	10.0635689	736	9.9364311	8638.355
2902	10.2339051	17135.997	44	11578.243	10.0636426	737	9.9363574	8636.889
2902	10.2336149	17124.402	43	11580.209	10.0637164	738	9.9362830	8635.423
2900	10.2333249	17112.804	42	11582.177	10.0637902	738	9.9362098	8633.956
2900	10.2330349	17101.207	41	11584.146	10.0638640	738	9.9361366	8632.488
2899	10.2327450	17090.616	40	11586.118	10.0639379	739	9.9360621	8631.019
2898	10.2324552	17079.027	39	11588.091	10.0640119	740	9.9359881	8629.549
2896	10.2321656	17067.439	38	11590.065	10.0640859	740	9.9359141	8628.079
2896	10.2318760	17055.853	37	11592.041	10.0641599	740	9.9358401	8626.608
2895	10.2315865	17044.268	36	11594.019	10.0642340	741	9.9357666	8625.137
2894	10.2312971	17032.683	35	11595.999	10.0643082	742	9.9356918	8623.664
2893	10.2310078	17021.099	34	11597.980	10.0643823	741	9.9356177	8622.191
2892	10.2307186	17010.515	33	11599.963	10.0644566	743	9.9355434	8620.713
2891	10.2304295	16999.932	32	11601.947	10.0645309	743	9.9354691	8619.243
2891	10.2301404	16989.349	31	11603.933	10.0646052	743	9.9353948	8617.768
2889	10.2298513	16978.763	30	11605.921	10.0646796	744	9.9353204	8616.292
2888	10.2295627	16968.178	29	11607.911	10.0647541	745	9.9352459	8614.815
2888	10.2292739	16957.594	28	11609.902	10.0648285	744	9.9351715	8613.337
2886	10.2289853	16947.010	27	11611.894	10.0649031	746	9.9350969	8611.859
2886	10.2286967	16936.426	26	11613.889	10.0649777	746	9.9350223	8610.380
2884	10.2284083	16925.842	25	11615.885	10.0650523	746	9.9349477	8608.901
2884	10.2281199	16915.258	24	11617.883	10.0651270	747	9.9348730	8607.420
2883	10.2278316	16904.674	23	11619.882	10.0652017	747	9.9347983	8605.939
2882	10.2275434	16894.090	22	11621.883	10.0652765	748	9.9347235	8604.457
2881	10.2272553	16883.506	21	11623.886	10.0653514	749	9.9346486	8602.975
2880	10.2269673	16872.922	20	11625.891	10.0654262	748	9.9345738	8601.491
2879	10.2266794	16862.338	19	11627.897	10.0655012	750	9.9344988	8600.007
2878	10.2263916	16851.754	18	11629.905	10.0655762	750	9.9344238	8598.523
2877	10.2261039	16841.170	17	11631.914	10.0656512	750	9.9343488	8597.037
2877	10.2258162	16830.586	16	11633.925	10.0657263	751	9.9342737	8595.551
2875	10.2255287	16820.002	15	11635.938	10.0658014	751	9.9341986	8594.064
2875	10.2252412	16809.418	14	11637.953	10.0658766	752	9.9341234	8592.576
2874	10.2249538	16798.834	13	11639.969	10.0659518	752	9.9340482	8591.088
2872	10.2246666	16788.250	12	11641.987	10.0660271	753	9.9339729	8589.599
2872	10.2243794	16777.666	11	11644.007	10.0661024	753	9.9338976	8588.109
2871	10.2240923	16767.082	10	11646.028	10.0661778	754	9.9338222	8586.619
2870	10.2238053	16756.498	9	11648.051	10.0662533	755	9.9337467	8585.129
2869	10.2235184	16745.914	8	11650.076	10.0663287	754	9.9336713	8583.635
2869	10.2232315	16735.330	7	11652.102	10.0664043	756	9.9335957	8582.143
2867	10.2229448	16724.746	6	11654.130	10.0664799	756	9.9335201	8580.649
2866	10.2226582	16714.162	5	11656.160	10.0665555	756	9.9334445	8579.155
2866	10.2223716	16703.578	4	11658.191	10.0666312	757	9.9333688	8577.660
2865	10.2220851	16692.994	3	11660.224	10.0667069	757	9.9332931	8576.164
2863	10.2217988	16682.410	2	11662.259	10.0667827	758	9.9332173	8574.668
2863	10.2215125	16671.826	1	11664.296	10.0668585	758	9.9331415	8573.171
2862	10.2212263	16661.242	0	11666.334	10.0669344	759	9.9330656	8571.673
Diff	L. Tang	N. Tan.	M	Co-secants		D	L. Sine	N. Sine

## 59 Degrees

# 31 Degrees

M. N. Sine	L. Sine	Diff	Co-secants		M. N. Tan.	L. Tan.	Diff		
0	5150,381	9.7118393	2102	10.2881607	19416,040	60	6008,600	9.7787737	2862
1	5152,874	9.7120495	2101	10.2879505	19406,646	59	6012,566	9.7755555	2860
2	5155,367	9.7122596	2099	10.2877404	19397,262	58	6016,527	9.7723455	2858
3	5157,859	9.7124695	2097	10.2875305	19387,889	57	6020,485	9.7703121	2855
4	5160,351	9.7126792	2097	10.2873208	19378,527	56	6024,444	9.7799177	2857
5	5162,842	9.7128889	2094	10.2871111	19369,176	55	6028,419	9.7802034	2857
6	5165,333	9.7130983	2094	10.2869017	19359,835	54	6032,380	9.7804891	2855
7	5167,824	9.7133077	2092	10.2866923	19350,505	53	6036,354	9.7807747	2855
8	5170,314	9.7135169	2091	10.2864831	19341,185	52	6040,323	9.7810602	2854
9	5172,804	9.7137260	2088	10.2862740	19331,876	51	6044,294	9.7813456	2853
10	5175,293	9.7139349	2088	10.2860651	19322,578	50	6048,266	9.7816309	2853
11	5177,782	9.7141437	2087	10.2858563	19313,290	49	6052,240	9.7819162	2851
12	5180,270	9.7143524	2085	10.2856476	19304,013	48	6056,215	9.7822013	2851
13	5182,758	9.7145609	2084	10.2854391	19294,746	47	6060,192	9.7824864	2845
14	5185,246	9.7147693	2083	10.2852307	19285,490	46	6064,170	9.7827713	2845
15	5187,733	9.7149776	2081	10.2850224	19276,241	45	6068,149	9.7830562	2844
16	5190,219	9.7151857	2080	10.2848143	19267,009	44	6072,130	9.7833410	2845
17	5192,705	9.7153937	2078	10.2846063	19257,784	43	6076,112	9.7836258	2846
18	5195,191	9.7156015	2077	10.2843985	19248,570	42	6080,095	9.7839104	2845
19	5197,676	9.7158092	2076	10.2841908	19239,366	41	6084,080	9.7841949	2845
20	5200,161	9.7160168	2075	10.2839832	19230,173	40	6088,067	9.7844794	2844
21	5202,646	9.7162243	2073	10.2837757	19220,990	39	6092,054	9.7847638	2843
22	5205,130	9.7164316	2071	10.2835684	19211,817	38	6096,043	9.7850481	2842
23	5207,613	9.7166387	2071	10.2833613	19202,655	37	6100,034	9.7853323	2841
24	5210,096	9.7168458	2068	10.2831542	19193,503	36	6104,026	9.7856164	2840
25	5212,579	9.7170526	2068	10.2829474	19184,362	35	6108,019	9.7859004	2840
26	5215,061	9.7172594	2066	10.2827406	19175,230	34	6112,014	9.7861844	2838
27	5217,543	9.7174660	2065	10.2825340	19166,110	33	6116,011	9.7864682	2838
28	5220,024	9.7176725	2064	10.2823275	19156,999	32	6120,008	9.7867520	2837
29	5222,505	9.7178789	2062	10.2821211	19147,895	31	6124,007	9.7870357	2836
30	5224,986	9.7180851	2061	10.2819149	19138,809	30	6128,008	9.7873193	2835
31	5227,466	9.7182912	2059	10.2817088	19129,729	29	6132,010	9.7876028	2835
32	5229,945	9.7184971	2055	10.2815029	19120,659	28	6136,013	9.7878863	2833
33	5232,424	9.7187030	2056	10.2812970	19111,600	27	6140,018	9.7881696	2833
34	5234,903	9.7189086	2056	10.2810914	19102,551	26	6144,024	9.7884529	2832
35	5237,381	9.7191142	2054	10.2808858	19093,512	25	6148,032	9.7887361	2831
36	5239,859	9.7193196	2053	10.2806804	19084,483	24	6152,041	9.7890192	2831
37	5242,336	9.7195249	2051	10.2804751	19075,464	23	6156,052	9.7893023	2829
38	5244,813	9.7197300	2050	10.2802700	19066,456	22	6160,064	9.7895852	2825
39	5247,290	9.7199350	2049	10.2800650	19057,457	21	6164,077	9.7898681	2827
40	5249,766	9.7201399	2048	10.2798601	19048,469	20	6168,092	9.7901508	2827
41	5252,241	9.7203447	2046	10.2796553	19039,491	19	6172,108	9.7904335	2826
42	5254,717	9.7205493	2045	10.2794507	19030,522	18	6176,126	9.7907161	2826
43	5257,191	9.7207538	2043	10.2792462	19021,564	17	6180,145	9.7909987	2824
44	5259,665	9.7209581	2042	10.2790419	19012,616	16	6184,165	9.7912811	2824
45	5262,139	9.7211623	2041	10.2788377	19003,678	15	6188,188	9.7915635	2823
46	5264,613	9.7213664	2040	10.2786336	18994,750	14	6192,211	9.7918458	2822
47	5267,085	9.7215704	2038	10.2784296	18985,832	13	6196,236	9.7921280	2821
48	5269,558	9.7217742	2037	10.2782258	18976,924	12	6200,263	9.7924101	2820
49	5272,030	9.7219779	2035	10.2780221	18968,026	11	6204,291	9.7926921	2820
50	5274,502	9.7221814	2034	10.2778186	18959,138	10	6208,320	9.7929741	2819
51	5276,973	9.7223848	2033	10.2776152	18950,259	9	6212,351	9.7932560	2818
52	5279,443	9.7225881	2032	10.2774119	18941,391	8	6216,383	9.7935378	2817
53	5281,914	9.7227911	2030	10.2772087	18932,532	7	6220,417	9.7938195	2816
54	5284,383	9.7229943	2029	10.2770057	18923,684	6	6224,452	9.7941011	2816
55	5286,853	9.7231972	2028	10.2768028	18914,845	5	6228,488	9.7943827	2814
56	5289,322	9.7234000	2026	10.2766000	18906,016	4	6232,527	9.7946641	2814
57	5291,790	9.7236026	2025	10.2763974	18897,197	3	6236,567	9.7949455	2813
58	5294,258	9.7238051	2024	10.2761949	18888,388	2	6240,607	9.7952268	2813
59	5296,726	9.7240075	2022	10.2759925	18879,589	1	6244,650	9.7955081	2811
60	5299,193	9.7242097	2021	10.2757903	18870,799	0	6248,694	9.7957892	2811
Co-fines		Diff	L. Sec. N. Sec. M		Co-tangents		Diff		

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# 31 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
2862	10.2212261	16642,795	56	11666,334	10.0669344	759	9.9330656	571,673
2860	10.2209401	16631,834	55	11668,374	10.0670103	760	9.9329897	8570,174
2859	10.2206541	16620,884	58	11670,416	10.0670863	761	9.9329137	8568,675
2859	10.2203682	16609,945	57	11672,459	10.0671624	762	9.9328376	8567,175
2857	10.2200823	16599,016	55	11674,504	10.0672384	763	9.9327616	8565,674
2857	10.2197966	16588,097	55	11676,551	10.0673146	764	9.9326854	8564,173
2857	10.2195106	16577,180	54	11678,599	10.0673908	765	9.9326092	8562,671
2855	10.2192253	16566,262	53	11680,649	10.0674670	766	9.9325330	8561,168
2855	10.2189398	16555,405	52	11682,701	10.0675433	767	9.9324567	8559,664
2854	10.2186544	16544,529	51	11684,755	10.0676196	768	9.9323804	8558,160
2853	10.2183691	16533,663	50	11686,810	10.0676960	769	9.9323042	8556,655
2853	10.2180838	16522,806	49	11688,867	10.0677724	770	9.9322279	8555,149
2851	10.2177987	16511,963	48	11690,925	10.0678489	771	9.9321511	8553,643
2851	10.2175136	16501,128	47	11692,986	10.0679254	772	9.9320746	8552,135
2849	10.2172287	16490,304	46	11695,048	10.0680020	773	9.9319980	8550,627
2849	10.2169430	16479,490	45	11697,112	10.0680787	774	9.9319213	8549,119
2848	10.2166588	16468,687	44	11699,178	10.0681553	775	9.9318447	8547,609
2848	10.2163742	16457,893	43	11701,245	10.0682321	776	9.9317679	8546,099
2846	10.2160896	16447,111	42	11703,314	10.0683088	777	9.9316911	8544,588
2845	10.2158051	16436,338	41	11705,385	10.0683857	778	9.9316143	8543,077
2845	10.2155206	16425,575	40	11707,457	10.0684626	779	9.9315374	8541,564
2844	10.2152362	16414,824	39	11709,531	10.0685395	780	9.9314605	8540,051
2843	10.2149519	16404,082	38	11711,607	10.0686165	781	9.9313835	8538,538
2842	10.2146677	16393,351	37	11713,685	10.0686935	782	9.9313065	8537,023
2841	10.2143836	16382,630	36	11715,764	10.0687706	783	9.9312294	8535,508
2840	10.2140990	16371,915	35	11717,845	10.0688478	784	9.9311522	8533,992
2840	10.2138156	16361,218	34	11719,928	10.0689250	785	9.9310750	8532,475
2838	10.2135318	16350,528	33	11722,013	10.0690022	786	9.9309978	8530,958
2838	10.2132480	16339,847	32	11724,099	10.0690795	787	9.9309205	8529,440
2837	10.2129643	16329,177	31	11726,187	10.0691568	788	9.9308432	8527,921
2836	10.2126807	16318,517	30	11728,277	10.0692342	789	9.9307658	8526,402
2835	10.2123972	16307,867	29	11730,368	10.0693117	790	9.9306883	8524,881
2835	10.2121137	16297,227	28	11732,462	10.0693891	791	9.9306109	8523,360
2833	10.2118304	16286,597	27	11734,557	10.0694667	792	9.9305333	8521,839
2833	10.2115471	16275,977	26	11736,653	10.0695443	793	9.9304557	8520,316
2832	10.2112639	16265,368	25	11738,752	10.0696219	794	9.9303781	8518,793
2831	10.2109808	16254,768	24	11740,852	10.0696996	795	9.9303004	8517,269
2831	10.2106977	16244,178	23	11742,954	10.0697774	796	9.9302226	8515,745
2829	10.2104148	16233,599	22	11745,058	10.0698552	797	9.9301448	8514,219
2829	10.2101319	16223,029	21	11747,163	10.0699330	798	9.9300670	8512,693
2827	10.2098492	16212,469	20	11749,270	10.0700109	799	9.9300000	8511,167
2827	10.2095665	16201,920	19	11751,379	10.0700888	800	9.9299222	8509,639
2826	10.2092839	16191,380	18	11753,490	10.0701668	801	9.9298443	8508,111
2826	10.2090013	16180,850	17	11755,603	10.0702449	802	9.9297664	8506,582
2824	10.2087189	16170,330	16	11757,717	10.0703230	803	9.9296885	8505,053
2824	10.2084365	16159,820	15	11759,833	10.0704011	804	9.9296106	8503,522
2823	10.2081542	16149,320	14	11761,951	10.0704793	805	9.9295327	8501,991
2822	10.2078720	16138,829	13	11764,070	10.0705576	806	9.9294548	8500,459
2821	10.2075899	16128,349	12	11766,191	10.0706359	807	9.9293769	8498,927
2820	10.2073079	16117,878	11	11768,314	10.0707143	808	9.9292990	8497,394
2820	10.2070259	16107,417	10	11770,439	10.0707927	809	9.9292211	8495,860
2819	10.2067440	16096,966	9	11772,566	10.0708711	810	9.9291432	8494,325
2818	10.2064622	16086,525	8	11774,694	10.0709496	811	9.9290653	8492,790
2817	10.2061805	16076,094	7	11776,824	10.0710282	812	9.9289874	8491,254
2816	10.2058988	16065,672	6	11778,956	10.0711068	813	9.9289095	8489,717
2816	10.2056173	16055,260	5	11781,089	10.0711855	814	9.9288316	8488,179
2814	10.2053359	16044,858	4	11783,225	10.0712642	815	9.9287537	8486,641
2814	10.2050545	16034,465	3	11785,362	10.0713429	816	9.9286758	8485,102
2813	10.2047732	16024,082	2	11787,501	10.0714217	817	9.9285979	8483,562
2813	10.2044919	16013,709	1	11789,642	10.0715006	818	9.9285200	8482,022
2811	10.2042108	16003,345	0	11791,784	10.0715795	819	9.9284421	8480,481
Diff.	L. Tang.	N. Tan.	M	Co-secants		D	L. Sine	N. Sine

# 32 Degrees

M	N. Sine	L. Sine	Diff	Co-secants			M	N. Tan.	L. Tan.	Diff
0	5299,193	9.7242097	2021	10.2757903	18870,799	60	0	6248,694	9.7957892	2811
1	5301,659	9.7244118	2020	10.2755882	18862,019	59	1	6252,739	9.7960703	2810
2	5304,125	9.7246138	2018	10.2753862	18853,249	58	2	6256,786	9.7963513	2809
3	5306,591	9.7248156	2018	10.2751844	18844,489	57	3	6260,834	9.7966322	2808
4	5309,057	9.7250174	2015	10.2749826	18835,738	56	4	6264,884	9.7969130	2808
5	5311,521	9.7252189	2015	10.2747811	18826,998	55	5	6268,935	9.7971938	2807
6	5313,986	9.7254204	2013	10.2745796	18818,266	54	6	6272,988	9.7974745	2806
7	5316,450	9.7256217	2012	10.2743783	18809,545	53	7	6277,042	9.7977551	2805
8	5318,913	9.7258229	2011	10.2741771	18800,833	52	8	6281,098	9.7980356	2804
9	5321,376	9.7260240	2009	10.2739760	18792,131	51	9	6285,155	9.7983160	2804
10	5323,839	9.7262249	2008	10.2737751	18783,438	50	10	6289,214	9.7985964	2803
11	5326,301	9.7264257	2007	10.2735743	18774,755	49	11	6293,274	9.7988767	2802
12	5328,763	9.7266264	2005	10.2733736	18766,082	48	12	6297,336	9.7991569	2801
13	5331,224	9.7268269	2004	10.2731731	18757,419	47	13	6301,399	9.7994370	2800
14	5333,685	9.7270273	2003	10.2729727	18748,764	46	14	6305,464	9.7997170	2800
15	5336,145	9.7272276	2002	10.2727724	18740,120	45	15	6309,530	9.7999970	2799
16	5338,605	9.7274278	2000	10.2725722	18731,485	44	16	6313,598	9.8002769	2798
17	5341,065	9.7276278	1999	10.2723722	18722,859	43	17	6317,667	9.8005567	2798
18	5343,523	9.7278277	1998	10.2721723	18714,244	42	18	6321,738	9.8008365	2796
19	5345,982	9.7280275	1996	10.2719725	18705,637	41	19	6325,810	9.8011161	2796
20	5348,440	9.7282271	1996	10.2717729	18697,040	40	20	6329,883	9.8013957	2795
21	5350,898	9.7284267	1993	10.2715733	18688,453	39	21	6333,959	9.8016752	2794
22	5353,355	9.7286260	1993	10.2713740	18679,875	38	22	6338,033	9.8019546	2794
23	5355,812	9.7288253	1991	10.2711747	18671,300	37	23	6342,113	9.8022343	2793
24	5358,268	9.7290244	1990	10.2709756	18662,747	36	24	6346,193	9.8025139	2792
25	5360,724	9.7292234	1989	10.2707766	18654,197	35	25	6350,274	9.8027925	2791
26	5363,179	9.7294223	1988	10.2705777	18645,657	34	26	6354,357	9.8030716	2790
27	5365,634	9.7296211	1986	10.2703789	18637,120	33	27	6358,441	9.8033506	2790
28	5368,089	9.7298197	1985	10.2701803	18628,605	32	28	6362,527	9.8036296	2789
29	5370,543	9.7300182	1983	10.2699818	18620,093	31	29	6366,614	9.8039085	2788
30	5372,996	9.7302165	1983	10.2697835	18611,590	30	30	6370,703	9.8041873	2788
31	5375,449	9.7304148	1981	10.2695852	18603,097	29	31	6374,793	9.8044661	2786
32	5377,902	9.7306129	1980	10.2693871	18594,612	28	32	6378,885	9.8047447	2786
33	5380,354	9.7308109	1978	10.2691891	18586,138	27	33	6382,978	9.8050233	2786
34	5382,806	9.7310087	1977	10.2689913	18577,672	26	34	6387,073	9.8053019	2784
35	5385,257	9.7312064	1976	10.2687936	18569,216	25	35	6391,169	9.8055803	2784
36	5387,708	9.7314040	1974	10.2685960	18560,769	24	36	6395,267	9.8058587	2783
37	5390,158	9.7316015	1973	10.2683985	18552,331	23	37	6399,366	9.8061370	2782
38	5392,608	9.7317989	1972	10.2682011	18543,903	22	38	6403,467	9.8064152	2781
39	5395,058	9.7319961	1971	10.2680039	18535,483	21	39	6407,569	9.8066933	2781
40	5397,507	9.7321932	1970	10.2678068	18527,073	20	40	6411,673	9.8069714	2780
41	5399,955	9.7323902	1968	10.2676098	18518,672	19	41	6415,779	9.8072494	2779
42	5402,403	9.7325870	1967	10.2674130	18510,281	18	42	6419,886	9.8075273	2778
43	5404,851	9.7327837	1966	10.2672163	18501,898	17	43	6423,994	9.8078052	2777
44	5407,298	9.7329803	1965	10.2670197	18493,525	16	44	6428,105	9.8080830	2777
45	5409,745	9.7331768	1963	10.2668232	18485,161	15	45	6432,216	9.8083606	2777
46	5412,191	9.7333731	1962	10.2666269	18476,806	14	46	6436,329	9.8086383	2775
47	5414,637	9.7335693	1961	10.2664307	18468,460	13	47	6440,444	9.8089158	2775
48	5417,082	9.7337654	1960	10.2662346	18460,123	12	48	6444,560	9.8091933	2774
49	5419,527	9.7339614	1958	10.2660386	18451,795	11	49	6448,678	9.8094707	2773
50	5421,971	9.7341572	1957	10.2658428	18443,476	10	50	6452,797	9.8097480	2773
51	5424,415	9.7343529	1956	10.2656471	18435,166	9	51	6456,918	9.8100253	2771
52	5426,859	9.7345485	1955	10.2654515	18426,866	8	52	6461,041	9.8103025	2771
53	5429,302	9.7347440	1953	10.2652560	18418,574	7	53	6465,165	9.8105796	2770
54	5431,744	9.7349393	1952	10.2650607	18410,292	6	54	6469,290	9.8108566	2770
55	5434,187	9.7351345	1951	10.2648655	18402,018	5	55	6473,417	9.8111336	2769
56	5436,628	9.7353296	1950	10.2646704	18393,753	4	56	6477,546	9.8114105	2768
57	5439,069	9.7355246	1949	10.2644754	18385,498	3	57	6481,676	9.8116873	2768
58	5441,510	9.7357195	1947	10.2642805	18377,251	2	58	6485,808	9.8119641	2767
59	5443,951	9.7359142	1946	10.2640858	18369,013	1	59	6489,941	9.8122408	2766
60	5446,390	9.7361088		10.2638912	18360,785	0	60	6494,076	9.8125174	
Co-sines			Diff	L. Sec.	N. Sec.	M	Co-tangents			Diff

# 57 Degrees

# 32 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
2811	10.2042108	16003,345	50	0	11791,784	10.0715795	790	9.9284205	8480,481	60
2810	10.2039297	15992,991	59	1	11793,928	10.0716585	790	9.9283445	8478,939	59
2809	10.2036487	15982,647	58	2	11796,074	10.0717375	791	9.9282685	8477,397	58
2808	10.2033678	15972,312	57	3	11798,222	10.0718166	791	9.9281834	8475,853	57
2807	10.2030870	15961,987	56	4	11800,372	10.0718957	792	9.9281043	8474,309	56
2806	10.2028062	15951,672	55	5	11802,523	10.0719749	792	9.9280251	8472,765	55
2805	10.2025255	15941,366	54	6	11804,676	10.0720541	792	9.9279459	8471,221	54
2804	10.2022449	15931,070	53	7	11806,831	10.0721334	793	9.9278666	8469,677	53
2803	10.2019644	15920,783	52	8	11808,988	10.0722127	793	9.9277873	8468,136	52
2802	10.2016840	15910,505	51	9	11811,146	10.0722921	794	9.9277079	8466,593	51
2801	10.2014036	15900,238	50	10	11813,307	10.0723715	794	9.9276285	8465,050	50
2800	10.2011233	15889,979	49	11	11815,469	10.0724510	795	9.9275490	8463,508	49
2799	10.2008431	15879,731	48	12	11817,633	10.0725305	795	9.9274695	8461,964	48
2798	10.2005630	15869,491	47	13	11819,798	10.0726101	796	9.9273899	8460,421	47
2797	10.2002830	15859,261	46	14	11821,966	10.0726897	796	9.9273103	8458,878	46
2796	10.2000030	15849,041	45	15	11824,135	10.0727694	797	9.9272306	8457,336	45
2795	10.1997231	15838,830	44	16	11826,306	10.0728491	797	9.9271509	8455,793	44
2794	10.1994433	15828,628	43	17	11828,479	10.0729289	798	9.9270711	8454,251	43
2793	10.1991635	15818,436	42	18	11830,654	10.0730087	798	9.9269913	8452,708	42
2792	10.1988839	15808,253	41	19	11832,830	10.0730886	799	9.9269114	8451,166	41
2791	10.1986043	15798,079	40	20	11835,008	10.0731686	800	9.9268314	8449,624	40
2790	10.1983248	15787,915	39	21	11837,188	10.0732486	800	9.9267514	8448,082	39
2789	10.1980454	15777,760	38	22	11839,370	10.0733286	801	9.9266714	8446,540	38
2788	10.1977660	15767,615	37	23	11841,554	10.0734087	801	9.9265913	8444,998	37
2787	10.1974867	15757,479	36	24	11843,739	10.0734888	802	9.9265112	8443,456	36
2786	10.1972075	15747,352	35	25	11845,927	10.0735690	803	9.9264310	8441,914	35
2785	10.1969284	15737,234	34	26	11848,116	10.0736493	803	9.9263507	8440,372	34
2784	10.1966494	15727,126	33	27	11850,307	10.0737296	803	9.9262704	8438,830	33
2783	10.1963704	15717,026	32	28	11852,500	10.0738099	805	9.9261901	8437,288	32
2782	10.1960915	15706,936	31	29	11854,694	10.0738904	804	9.9261096	8435,746	31
2781	10.1958127	15696,856	30	30	11856,890	10.0739708	805	9.9260292	8434,204	30
2780	10.1955339	15686,784	29	31	11859,089	10.0740513	806	9.9259487	8432,662	29
2779	10.1952553	15676,722	28	32	11861,289	10.0741319	806	9.9258681	8431,120	28
2778	10.1949767	15666,669	27	33	11863,490	10.0742125	806	9.9257875	8429,578	27
2777	10.1946981	15656,625	26	34	11865,694	10.0742931	808	9.9257069	8428,036	26
2776	10.1944197	15646,590	25	35	11867,900	10.0743735	807	9.9256261	8426,494	25
2775	10.1941413	15636,564	24	36	11870,107	10.0744546	808	9.9255454	8424,952	24
2774	10.1938630	15626,548	23	37	11872,316	10.0745355	808	9.9254646	8423,410	23
2773	10.1935848	15616,540	22	38	11874,527	10.0746163	809	9.9253837	8421,868	22
2772	10.1933067	15606,542	21	39	11876,740	10.0746972	810	9.9253028	8420,326	21
2771	10.1930286	15596,550	20	40	11878,954	10.0747782	810	9.9252218	8418,784	20
2770	10.1927506	15586,572	19	41	11881,171	10.0748592	811	9.9251408	8417,242	19
2769	10.1924727	15576,601	18	42	11883,389	10.0749403	811	9.9250597	8415,700	18
2768	10.1921948	15566,639	17	43	11885,609	10.0750214	812	9.9249786	8414,158	17
2767	10.1919171	15556,685	16	44	11887,831	10.0751026	813	9.9248974	8412,616	16
2766	10.1916394	15546,741	15	45	11890,055	10.0751839	812	9.9248161	8411,074	15
2765	10.1913617	15536,806	14	46	11892,280	10.0752651	814	9.9247349	8409,532	14
2764	10.1910842	15526,880	13	47	11894,508	10.0753465	814	9.9246535	8407,990	13
2763	10.1908067	15516,963	12	48	11896,737	10.0754279	814	9.9245721	8406,448	12
2762	10.1905293	15507,054	11	49	11898,968	10.0755093	815	9.9244907	8404,906	11
2761	10.1902520	15497,155	10	50	11901,201	10.0755908	815	9.9244092	8403,364	10
2760	10.1899747	15487,264	9	51	11903,436	10.0756723	816	9.9243277	8401,822	9
2759	10.1896975	15477,383	8	52	11905,673	10.0757539	817	9.9242461	8400,280	8
2758	10.1894204	15467,510	7	53	11907,911	10.0758356	817	9.9241644	8398,738	7
2757	10.1891434	15457,647	6	54	11910,152	10.0759173	818	9.9240827	8397,196	6
2756	10.1888664	15447,792	5	55	11912,394	10.0759990	819	9.9240010	8395,654	5
2755	10.1885895	15437,946	4	56	11914,638	10.0760805	818	9.9239191	8394,112	4
2754	10.1883127	15428,108	3	57	11916,884	10.0761627	819	9.9238373	8392,570	3
2753	10.1880359	15418,280	2	58	11919,132	10.0762446	820	9.9237554	8391,028	2
2752	10.1877592	15408,460	1	59	11921,381	10.0763266	820	9.9236734	8389,486	1
2751	10.1874826	15398,650	0	60	11923,633	10.0764086	821	9.9235914	8387,944	0
Diff	L. Tang. N. Tan. M.			Co-Secants			D	L. Sine N. Sine		

# 33 Degrees

N. Sine	L. Sine	Diff	Co-secants	M.	N. Tan.	L. Tan.	Diff		
0	5446,39c	7.7361088	10.2638912	18360,785	6c	0	6494,076	9.8125174	2765
1	5448,83c	7.7363032	10.2636968	18352,565	59	1	6498,212	9.8127939	2765
2	5451,269	7.7364976	10.2635c24	18344,354	58	2	6502,350	9.8130704	2764
3	5453,707	7.7366918	10.2633c82	18336,152	57	3	6506,490	9.8133468	2763
4	5456,145	7.7368855	10.2631141	18327,959	56	4	6510,631	9.8136231	2762
5	5458,583	7.7370799	10.2629201	18319,774	55	5	6514,774	9.8138993	2762
6	5461,02c	7.7372737	10.2627263	18311,599	54	6	6518,918	9.8141755	2761
7	5463,456	7.7374675	10.2625325	18303,432	53	7	6523,064	9.8144516	2761
8	5465,892	7.7376611	10.2623389	18295,274	52	8	6527,211	9.8147277	2759
9	5468,328	7.7378546	10.2621454	18287,125	51	9	6531,360	9.8150036	2759
10	5470,763	7.7380479	10.2619521	18278,985	50	10	6535,511	9.8152795	2759
11	5473,198	7.7382412	10.2617588	18270,854	49	11	6539,663	9.8155554	2757
12	5475,632	7.7384343	10.2615657	18262,731	48	12	6543,817	9.8158311	2757
13	5478,066	7.7386273	10.2613727	18254,617	47	13	6547,972	9.8161068	2756
14	5480,499	7.7388201	10.2611799	18246,512	46	14	6552,129	9.8163824	2756
15	5482,932	7.7390129	10.2609871	18238,416	45	15	6556,287	9.8166580	2755
16	5485,365	7.7392055	10.2607945	18230,328	44	16	6560,447	9.8169335	2754
17	5487,797	7.7393980	10.2606020	18222,245	43	17	6564,609	9.8172089	2753
18	5490,228	7.739590-	10.2604096	18214,179	42	18	6568,772	9.8174842	2753
19	5492,659	7.7397827	10.2602173	18206,118	41	19	6572,937	9.8177595	2752
20	5495,090	7.7399747	10.2600252	18198,065	40	20	6577,103	9.8180347	2751
21	5497,520	7.7401668	10.2598332	18190,021	39	21	6581,271	9.8183098	2751
22	5499,950	7.7403587	10.2596413	18181,985	38	22	6585,441	9.8185849	2750
23	5502,379	7.7405505	10.2594495	18173,958	37	23	6589,612	9.8188599	2749
24	5504,807	7.7407421	10.2592579	18165,940	36	24	6593,785	9.8191348	2748
25	5507,236	7.7409337	10.2590663	18157,930	35	25	6597,960	9.8194096	2748
26	5509,663	7.7411251	10.2588749	18149,925	34	26	6602,136	9.8196844	2748
27	5512,091	7.7413164	10.2586836	18141,937	33	27	6606,313	9.8199592	2746
28	5514,518	7.7415075	10.2584925	18133,953	32	28	6610,492	9.8202348	2746
29	5516,944	7.7416986	10.2583014	18125,977	31	29	6614,673	9.8205083	2745
30	5519,370	7.7418895	10.2581105	18118,010	30	30	6618,856	9.8207829	2745
31	5521,795	7.7420803	10.2579197	18110,052	29	31	6623,040	9.8210574	2743
32	5524,220	7.7422710	10.2577290	18102,102	28	32	6627,225	9.8213317	2743
33	5526,645	7.7424616	10.2575384	18094,161	27	33	6631,413	9.8216060	2743
34	5529,069	7.7426520	10.2573480	18086,228	26	34	6635,601	9.8218803	2742
35	5531,492	7.7428423	10.2571577	18078,304	25	35	6639,792	9.8221545	2741
36	5533,915	7.7430325	10.2569675	18070,388	24	36	6643,984	9.8224286	2740
37	5536,338	7.7432226	10.2567774	18062,481	23	37	6648,178	9.8227026	2740
38	5538,760	7.7434126	10.2565874	18054,582	22	38	6652,373	9.8229766	2739
39	5541,182	7.7436024	10.2563976	18046,691	21	39	6656,570	9.8232505	2739
40	5543,603	7.7437921	10.2562079	18038,809	20	40	6660,769	9.8235244	2738
41	5546,024	7.7439817	10.2560183	18030,935	19	41	6664,969	9.8237981	2738
42	5548,444	7.7441712	10.2558288	18023,070	18	42	6669,171	9.8240719	2738
43	5550,864	7.7443606	10.2556394	18015,213	17	43	6673,374	9.8243455	2737
44	5553,283	7.7445498	10.2554502	18007,365	16	44	6677,580	9.8246191	2737
45	5555,702	7.7447390	10.2552610	17999,524	15	45	6681,786	9.8248926	2734
46	5558,121	7.7449280	10.2550720	17991,693	14	46	6685,995	9.8251660	2734
47	5560,539	7.7451169	10.2548831	17983,869	13	47	6690,205	9.8254394	2733
48	5562,956	7.7453056	10.2546944	17976,054	12	48	6694,417	9.8257127	2733
49	5565,373	7.7454943	10.2545057	17968,247	11	49	6698,630	9.8259860	2732
50	5567,790	7.7456828	10.2543172	17960,449	10	50	6702,845	9.8262592	2731
51	5570,206	7.7458712	10.2541288	17952,658	9	51	6707,061	9.8265323	2730
52	5572,621	7.7460595	10.2539405	17944,876	8	52	6711,280	9.8268053	2730
53	5575,036	7.7462477	10.2537523	17937,102	7	53	6715,500	9.8270783	2730
54	5577,451	7.7464358	10.2535642	17929,337	6	54	6719,721	9.8273513	2728
55	5579,865	7.7466237	10.2533763	17921,580	5	55	6723,944	9.8276241	2728
56	5582,279	7.7468115	10.2531885	17913,831	4	56	6728,169	9.8278969	2727
57	5584,692	7.7469992	10.2530008	17906,090	3	57	6732,396	9.8281696	2727
58	5587,105	7.7471861	10.2528132	17898,357	2	58	6736,624	9.8284423	2726
59	5589,517	7.7473734	10.2526257	17890,633	1	59	6740,854	9.8287149	2725
60	5591,929	7.7475617	10.2524383	17882,910	0	60	6745,085	9.8289874	2725
Co-secants			L. Sec. N. Sec. M.		Co-tangents			Diff	

# 33 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-sines	
	L. Tang.	N. Tan.					L. Sine	N. Sine
2765	10.1874326	15398,650	60	11923,633	10.0764086	821	9.9235914	8386,706
2765	10.1872061	15388,848	59	11925,886	10.0764907	821	9.9235093	8385,121
2764	10.1869296	15379,054	58	11928,142	10.0765728	821	9.9234272	8383,536
2764	10.1866532	15369,270	57	11930,399	10.0766550	822	9.9233450	8381,950
2763	10.1863769	15359,494	56	11932,658	10.0767372	822	9.9232628	8380,363
2762	10.1861007	15349,727	55	11934,918	10.0768195	823	9.9231805	8378,775
2762	10.1858245	15339,969	54	11937,181	10.0769018	823	9.9230982	8377,187
2761	10.1855484	15330,219	53	11939,446	10.0769842	824	9.9230158	8375,598
2761	10.1852723	15320,479	52	11941,712	10.0770666	824	9.9229334	8374,009
2759	10.1849964	15310,746	51	11943,980	10.0771491	825	9.9228509	8372,418
2759	10.1847205	15301,023	50	11946,251	10.0772316	825	9.9227684	8370,827
2759	10.1844446	15291,308	49	11948,523	10.0773142	826	9.9226858	8369,236
2757	10.1841689	15281,602	48	11950,796	10.0773968	826	9.9226032	8367,643
2757	10.1838932	15271,904	47	11953,072	10.0774795	827	9.9225205	8366,050
2756	10.1836176	15262,215	46	11955,350	10.0775623	828	9.9224377	8364,456
2756	10.1833420	15252,535	45	11957,629	10.0776451	828	9.9223549	8362,862
2755	10.1830665	15242,863	44	11959,911	10.0777279	830	9.9222721	8361,266
2754	10.1827911	15233,200	43	11962,194	10.0778109	830	9.9221891	8359,673
2753	10.1825158	15223,545	42	11964,479	10.0778938	829	9.9221062	8358,074
2753	10.1822405	15213,899	41	11966,767	10.0779768	830	9.9220232	8356,476
2752	10.1819653	15204,261	40	11969,056	10.0780599	831	9.9219401	8354,878
2751	10.1816902	15194,632	39	11971,346	10.0781430	831	9.9218570	8353,279
2751	10.1814151	15185,012	38	11973,639	10.0782262	832	9.9217738	8351,680
2750	10.1811401	15175,400	37	11975,934	10.0783094	832	9.9216906	8350,080
2749	10.1808652	15165,796	36	11978,230	10.0783927	833	9.9216073	8348,479
2748	10.1805904	15156,201	35	11980,529	10.0784760	833	9.9215240	8346,877
2748	10.1803156	15146,614	34	11982,829	10.0785594	834	9.9214406	8345,275
2748	10.1800408	15137,036	33	11985,131	10.0786428	835	9.9213572	8343,672
2746	10.1797662	15127,466	32	11987,435	10.0787263	835	9.9212737	8342,068
2746	10.1794916	15117,905	31	11989,741	10.0788098	835	9.9211902	8340,463
2745	10.1792171	15108,352	30	11992,049	10.0788934	836	9.9211066	8338,858
2745	10.1789426	15098,807	29	11994,359	10.0789771	837	9.9210229	8337,252
2743	10.1786683	15089,271	28	11996,671	10.0790607	836	9.9209393	8335,646
2743	10.1783940	15079,743	27	11998,985	10.0791445	838	9.9208555	8334,038
2743	10.1781197	15070,224	26	12001,300	10.0792283	839	9.9207717	8332,430
2742	10.1778455	15060,713	25	12003,618	10.0793122	839	9.9206878	8330,822
2741	10.1775714	15051,210	24	12005,937	10.0793961	839	9.9206039	8329,212
2740	10.1772974	15041,716	23	12008,258	10.0794800	840	9.9205200	8327,602
2740	10.1770234	15032,229	22	12010,582	10.0795640	840	9.9204360	8325,991
2739	10.1767495	15022,751	21	12012,907	10.0796481	841	9.9203519	8324,380
2739	10.1764756	15013,282	20	12015,234	10.0797322	841	9.9202678	8322,768
2737	10.1762015	15003,821	19	12017,563	10.0798164	842	9.9201836	8321,155
2737	10.1759281	14994,367	18	12019,894	10.0799006	842	9.9200994	8319,541
2736	10.1756545	14984,923	17	12022,226	10.0799849	843	9.9200151	8317,927
2736	10.1753809	14975,486	16	12024,561	10.0800692	843	9.9199308	8316,312
2735	10.1751074	14966,058	15	12026,898	10.0801536	844	9.9198464	8314,696
2734	10.1748340	14956,637	14	12029,236	10.0802381	845	9.9197619	8313,080
2734	10.1745606	14947,225	13	12031,577	10.0803225	844	9.9196775	8311,463
2733	10.1742873	14937,822	12	12033,919	10.0804071	844	9.9195929	8309,845
2733	10.1740140	14928,426	11	12036,264	10.0804917	846	9.9195083	8308,226
2732	10.1737408	14919,039	10	12038,610	10.0805763	846	9.9194237	8306,607
2731	10.1734677	14909,659	9	12040,958	10.0806610	847	9.9193390	8304,987
2730	10.1731947	14900,288	8	12043,308	10.0807458	848	9.9192544	8303,366
2730	10.1729217	14890,925	7	12045,660	10.0808306	848	9.9191699	8301,745
2730	10.1726487	14881,570	6	12048,014	10.0809155	849	9.9190855	8300,123
2728	10.1723759	14872,223	5	12050,370	10.0810004	849	9.9189996	8298,500
2728	10.1721031	14862,884	4	12052,728	10.0810854	850	9.9189146	8296,877
2727	10.1718304	14853,554	3	12055,088	10.0811704	850	9.9188296	8295,252
2727	10.1715577	14844,231	2	12057,450	10.0812555	851	9.9187445	8293,628
2726	10.1712851	14834,916	1	12059,814	10.0813406	851	9.9186594	8292,001
2725	10.1710126	14825,610	0	12062,179	10.0814258	852	9.9185742	8290,376
Diff.	L. Tang.	N. Tan.	M	Co-secants		D	L. Sine	N. Sine

# 34 Degrees

M	N. Sine	L. Sine	Diff.	Co-secants			M	N. Tan.	L. Tan.	Diff.
0	5591.929	9.7475617	1872	10.2524383	17882.916	60	0	6745.085	9.8289874	2725
1	5594.340	9.7477489	1871	10.2522511	17875.208	59	1	6749.318	9.8292599	2724
2	5596.751	9.7479366	1870	10.2520640	17867.508	58	2	6753.553	9.8295323	2724
3	5599.162	9.7481233	1869	10.2518770	17859.817	57	3	6757.790	9.8298047	2723
4	5601.572	9.7483099	1868	10.2516901	17852.133	56	4	6762.028	9.8300769	2723
5	5603.981	9.7484967	1866	10.2515033	17844.457	55	5	6766.268	9.8303492	2721
6	5606.390	9.7486833	1865	10.2513167	17836.790	54	6	6770.509	9.8306213	2721
7	5608.798	9.7488698	1864	10.2511302	17829.131	53	7	6774.752	9.8308934	2720
8	5611.206	9.7490562	1863	10.2509438	17821.479	52	8	6778.997	9.8311654	2719
9	5613.614	9.7492425	1862	10.2507575	17813.836	51	9	6783.243	9.8314374	2718
10	5616.021	9.7494287	1861	10.2505713	17806.201	50	10	6787.492	9.8317093	2718
11	5618.428	9.7496148	1859	10.2503852	17798.574	49	11	6791.741	9.8319811	2717
12	5620.834	9.7498007	1859	10.2501993	17790.955	48	12	6795.992	9.8322529	2717
13	5623.239	9.7499866	1857	10.2500134	17783.344	47	13	6800.246	9.8325246	2717
14	5625.645	9.7501723	1856	10.2498277	17775.741	46	14	6804.501	9.8327963	2716
15	5628.049	9.7503579	1855	10.2496421	17768.146	45	15	6808.758	9.8330679	2715
16	5630.453	9.7505434	1853	10.2494566	17760.559	44	16	6813.016	9.8333394	2715
17	5632.857	9.7507287	1853	10.2492713	17752.980	43	17	6817.276	9.8336109	2714
18	5635.260	9.7509140	1851	10.2490860	17745.409	42	18	6821.537	9.8338823	2713
19	5637.663	9.7510991	1851	10.2489009	17737.845	41	19	6825.801	9.8341536	2713
20	5640.066	9.7512842	1849	10.2487158	17730.290	40	20	6830.066	9.8344249	2712
21	5642.467	9.7514691	1847	10.2485309	17722.743	39	21	6834.333	9.8346961	2712
22	5644.869	9.7516538	1847	10.2483462	17715.204	38	22	6838.601	9.8349673	2711
23	5647.270	9.7518385	1846	10.2481615	17707.672	37	23	6842.871	9.8352384	2711
24	5649.670	9.7520231	1844	10.2479769	17700.149	36	24	6847.143	9.8355094	2710
25	5652.070	9.7522075	1844	10.2477925	17692.633	35	25	6851.416	9.8357804	2709
26	5654.469	9.7523919	1842	10.2476081	17685.125	34	26	6855.692	9.8360513	2708
27	5656.868	9.7525761	1841	10.2474239	17677.625	33	27	6859.969	9.8363221	2708
28	5659.267	9.7527602	1840	10.2472398	17670.133	32	28	6864.247	9.8365929	2707
29	5661.665	9.7529442	1838	10.2470558	17662.649	31	29	6868.528	9.8368636	2707
30	5664.062	9.7531280	1838	10.2468720	17655.173	30	30	6872.810	9.8371343	2706
31	5666.459	9.7533118	1836	10.2466882	17647.704	29	31	6877.093	9.8374049	2706
32	5668.856	9.7534954	1836	10.2465046	17640.244	28	32	6881.379	9.8376755	2705
33	5671.252	9.7536790	1834	10.2463210	17632.791	27	33	6885.666	9.8379460	2704
34	5673.648	9.7538624	1833	10.2461376	17625.345	26	34	6889.955	9.8382164	2703
35	5676.043	9.7540457	1831	10.2459543	17617.908	25	35	6894.246	9.8384867	2703
36	5678.437	9.7542288	1831	10.2457712	17610.478	24	36	6898.538	9.8387571	2702
37	5680.832	9.7544119	1830	10.2455881	17603.057	23	37	6902.832	9.8390273	2702
38	5683.225	9.7545949	1828	10.2454051	17595.642	22	38	6907.128	9.8392975	2701
39	5685.619	9.7547777	1827	10.2452223	17588.236	21	39	6911.425	9.8395676	2701
40	5688.011	9.7549604	1827	10.2450396	17580.837	20	40	6915.725	9.8398377	2699
41	5690.403	9.7551431	1825	10.2448569	17573.446	19	41	6920.026	9.8401077	2699
42	5692.795	9.7553256	1824	10.2446744	17566.063	18	42	6924.328	9.8403776	2699
43	5695.187	9.7555080	1822	10.2444920	17558.687	17	43	6928.633	9.8406475	2699
44	5697.577	9.7556902	1822	10.2443098	17551.320	16	44	6932.939	9.8409174	2697
45	5699.968	9.7558724	1820	10.2441276	17543.959	15	45	6937.247	9.8411871	2698
46	5702.357	9.7560544	1820	10.2439456	17536.607	14	46	6941.557	9.8414569	2696
47	5704.747	9.7562364	1818	10.2437636	17529.262	13	47	6945.868	9.8417265	2696
48	5707.136	9.7564182	1817	10.2435818	17521.924	12	48	6950.181	9.8419961	2696
49	5709.524	9.7565999	1816	10.2434001	17514.595	11	49	6954.496	9.8422657	2694
50	5711.912	9.7567815	1815	10.2432185	17507.273	10	50	6958.813	9.8425351	2695
51	5714.299	9.7569630	1814	10.2430370	17499.958	9	51	6963.131	9.8428046	2693
52	5716.686	9.7571444	1812	10.2428556	17492.651	8	52	6967.451	9.8430739	2693
53	5719.073	9.7573256	1812	10.2426744	17485.352	7	53	6971.773	9.8433432	2693
54	5721.459	9.7575068	1810	10.2424932	17478.060	6	54	6976.097	9.8436125	2692
55	5723.844	9.7576879	1809	10.2423122	17470.776	5	55	6980.422	9.8438817	2691
56	5726.229	9.7578687	1808	10.2421313	17463.499	4	56	6984.749	9.8441508	2691
57	5728.614	9.7580495	1807	10.2419505	17456.230	3	57	6989.078	9.8444199	2690
58	5730.998	9.7582302	1806	10.2417698	17448.969	2	58	6993.409	9.8446885	2690
59	5733.383	9.7584108	1805	10.2415892	17441.715	1	59	6997.741	9.8449579	2689
60	5735.764	9.7585913		10.2414087	17434.468	C	60	7002.075	9.8452268	
Co-fines			Diff.	L. Sec.	N. Sec.	M	Co-tangents			Diff.

# 55 Degrees

# 34 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-fines		
	10.1710126	14823,610	6c	0	12062,175	10.0814250	852	9.9185742	3290,370	60
2725	10.1707401	14816,311	59	1	12064,547	10.0815110	853	9.9184850	3288,745	59
2724	10.1704677	14807,021	58	2	12066,917	10.0815963	854	9.9184037	3287,121	58
2723	10.1701953	14797,738	57	3	12069,283	10.0816817	855	9.9183183	3285,493	57
2722	10.1699231	14788,463	56	4	12071,662	10.0817671	856	9.9182329	3283,864	56
2721	10.1696508	14779,197	55	5	12074,037	10.0818525	857	9.9181475	3282,234	55
2720	10.1693787	14769,938	54	6	12076,415	10.0819380	858	9.9180620	3280,603	54
2719	10.1691066	14760,688	53	7	12078,794	10.0820236	859	9.9179764	3278,972	53
2718	10.1688346	14751,445	52	8	12081,175	10.0821092	860	9.9178908	3277,340	52
2717	10.1685626	14742,210	51	9	12083,555	10.0821949	861	9.9178051	3275,708	51
2716	10.1682907	14732,983	50	10	12085,944	10.0822806	862	9.9177194	3274,074	50
2715	10.1680189	14723,764	49	11	12088,331	10.0823664	863	9.9176336	3272,440	49
2714	10.1677471	14714,553	48	12	12090,720	10.0824522	864	9.9175478	3270,800	48
2713	10.1674754	14705,350	47	13	12093,112	10.0825381	865	9.9174619	3269,170	47
2712	10.1672037	14696,155	46	14	12095,505	10.0826240	866	9.9173760	3267,534	46
2711	10.1669321	14686,967	45	15	12097,900	10.0827100	867	9.9172900	3265,897	45
2710	10.1666606	14677,788	44	16	12100,297	10.0827960	868	9.9172040	3264,260	44
2709	10.1663891	14668,618	43	17	12102,696	10.0828821	869	9.9171179	3262,622	43
2708	10.1661177	14659,452	42	18	12105,097	10.0829683	870	9.9170317	3260,983	42
2707	10.1658464	14650,290	41	19	12107,500	10.0830545	871	9.9169455	3259,343	41
2706	10.1655751	14641,147	40	20	12109,905	10.0831407	872	9.9168593	3257,703	40
2705	10.1653039	14632,007	39	21	12112,312	10.0832270	873	9.9167730	3256,062	39
2704	10.1650327	14622,874	38	22	12114,721	10.0833134	874	9.9166866	3254,420	38
2703	10.1647616	14613,749	37	23	12117,132	10.0833998	875	9.9166002	3252,778	37
2702	10.1644906	14604,632	36	24	12119,545	10.0834863	876	9.9165137	3251,135	36
2701	10.1642196	14595,522	35	25	12121,960	10.0835728	877	9.9164272	3249,491	35
2700	10.1639487	14586,420	34	26	12124,377	10.0836594	878	9.9163406	3247,847	34
2699	10.1636779	14577,326	33	27	12126,795	10.0837461	879	9.9162539	3246,202	33
2698	10.1634071	14568,240	32	28	12129,216	10.0838327	880	9.9161673	3244,556	32
2697	10.1631364	14559,161	31	29	12131,639	10.0839195	881	9.9160805	3242,909	31
2696	10.1628657	14550,090	30	30	12134,064	10.0840063	882	9.9159937	3241,262	30
2695	10.1625951	14541,027	29	31	12136,491	10.0840931	883	9.9159069	3239,614	29
2694	10.1623245	14531,971	28	32	12138,920	10.0841800	884	9.9158200	3237,965	28
2693	10.1620540	14522,923	27	33	12141,351	10.0842670	885	9.9157330	3236,316	27
2692	10.1617836	14513,883	26	34	12143,784	10.0843540	886	9.9156460	3234,666	26
2691	10.1615133	14504,855	25	35	12146,218	10.0844411	887	9.9155589	3233,015	25
2690	10.1612429	14495,825	24	36	12148,655	10.0845282	888	9.9154718	3231,364	24
2689	10.1609727	14486,808	23	37	12151,094	10.0846154	889	9.9153846	3229,712	23
2688	10.1607025	14477,798	22	38	12153,535	10.0847026	890	9.9152974	3228,059	22
2687	10.1604324	14468,796	21	39	12155,978	10.0847899	891	9.9152101	3226,405	21
2686	10.1601623	14459,801	20	40	12158,423	10.0848772	892	9.9151228	3224,751	20
2685	10.1598923	14450,814	19	41	12160,870	10.0849646	893	9.9150354	3223,096	19
2684	10.1596224	14441,834	18	42	12163,319	10.0850521	894	9.9149479	3221,440	18
2683	10.1593525	14432,862	17	43	12165,770	10.0851396	895	9.9148604	3219,784	17
2682	10.1590826	14423,897	16	44	12168,223	10.0852271	896	9.9147729	3218,127	16
2681	10.1588129	14414,940	15	45	12170,678	10.0853148	897	9.9146852	3216,469	15
2680	10.1585431	14405,991	14	46	12173,135	10.0854024	898	9.9145976	3214,811	14
2679	10.1582735	14397,049	13	47	12175,594	10.0854901	899	9.9145099	3213,152	13
2678	10.1580039	14388,114	12	48	12178,055	10.0855779	900	9.9144221	3211,492	12
2677	10.1577343	14379,187	11	49	12180,518	10.0856658	901	9.9143343	3209,832	11
2676	10.1574649	14370,268	10	50	12182,983	10.0857530	902	9.9142464	3208,170	10
2675	10.1571954	14361,356	9	51	12185,450	10.0858406	903	9.9141584	3206,505	9
2674	10.1569261	14352,451	8	52	12187,919	10.0859286	904	9.9140704	3204,840	8
2673	10.1566568	14343,554	7	53	12190,390	10.0860170	905	9.9139824	3203,173	7
2672	10.1563875	14334,664	6	54	12192,864	10.0861057	906	9.9138943	3201,505	6
2671	10.1561183	14325,781	5	55	12195,335	10.0861939	907	9.9138061	3199,835	5
2670	10.1558492	14316,906	4	56	12197,810	10.0862821	908	9.9137177	3198,164	4
2669	10.1555801	14308,039	3	57	12200,290	10.0863704	909	9.9136290	3196,492	3
2668	10.1553111	14299,178	2	58	12202,777	10.0864587	910	9.9135413	3194,819	2
2667	10.1550421	14290,326	1	59	12205,260	10.0865470	911	9.9134530	3193,145	1
2666	10.1547732	14281,480	0	60	12207,746	10.0866355	912	9.9133645	3191,470	0
Diff	L. Tang.	N. Tan.	M		Co-secants		D	L. Sine	N. Sin.	M

# 35 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants		M. N. Tan.	L. Tan.	Diff.
0 5735,764	9.7585913	1804	10.2414087	17434,468 60	0 7002,075	9.8452268	2688
1 5738,147	9.7587717	1802	10.2412283	17427,229 59	1 7006,411	9.8454556	2688
2 5740,529	9.7589515	1802	10.2410481	17419,997 58	2 7010,745	9.8457044	2688
3 5742,911	9.7591321	1800	10.2408679	17412,773 57	3 7015,089	9.8460332	2686
4 5745,292	9.7593121	1799	10.2406879	17405,556 56	4 7019,430	9.8463018	2687
5 5747,672	9.7594920	1798	10.2405080	17398,347 55	5 7023,773	9.8465705	2685
6 5750,053	9.7596718	1797	10.2403282	17391,145 54	6 7028,118	9.8468390	2685
7 5752,432	9.7598515	1796	10.2401483	17383,951 53	7 7032,464	9.8471075	2685
8 5754,811	9.7600311	1795	10.2399689	17376,764 52	8 7036,813	9.8473760	2684
9 5757,190	9.7602106	1793	10.2397894	17369,585 51	9 7041,163	9.8476444	2683
10 5759,568	9.7603895	1793	10.2396101	17362,413 50	10 7045,515	9.8479127	2683
11 5761,946	9.7605692	1791	10.2394308	17355,248 49	11 7049,869	9.8481810	2682
12 5764,323	9.7607483	1791	10.2392517	17348,091 48	12 7054,224	9.8484492	2682
13 5766,700	9.7609274	1789	10.2390726	17340,941 47	13 7058,581	9.8487174	2681
14 5769,076	9.7611063	1788	10.2388937	17333,798 46	14 7062,940	9.8489855	2681
15 5771,452	9.7612851	1787	10.2387145	17326,663 45	15 7067,301	9.8492536	2680
16 5773,827	9.7614638	1786	10.2385362	17319,535 44	16 7071,664	9.8495216	2680
17 5776,202	9.7616424	1784	10.2383576	17312,414 43	17 7076,028	9.8497896	2679
18 5778,576	9.7618208	1784	10.2381792	17305,301 42	18 7080,395	9.8500575	2678
19 5780,950	9.7619992	1783	10.2380008	17298,195 41	19 7084,763	9.8503253	2678
20 5783,323	9.7621775	1781	10.2378225	17291,096 40	20 7089,133	9.8505931	2677
21 5785,696	9.7623556	1781	10.2376444	17284,005 39	21 7093,504	9.8508608	2677
22 5788,069	9.7625337	1779	10.2374663	17276,921 38	22 7097,878	9.8511285	2676
23 5790,440	9.7627116	1778	10.2372884	17269,844 37	23 7102,253	9.8513961	2676
24 5792,812	9.7628894	1777	10.2371106	17262,774 36	24 7106,630	9.8516637	2675
25 5795,183	9.7630671	1776	10.2369329	17255,712 35	25 7111,009	9.8519312	2675
26 5797,553	9.7632447	1775	10.2367553	17248,657 34	26 7115,390	9.8521987	2674
27 5799,923	9.7634222	1774	10.2365778	17241,609 33	27 7119,772	9.8524661	2674
28 5802,292	9.7635996	1773	10.2364004	17234,568 32	28 7124,157	9.8527335	2673
29 5804,661	9.7637769	1771	10.2362231	17227,534 31	29 7128,543	9.8530008	2672
30 5807,030	9.7639540	1771	10.2360460	17220,508 30	30 7132,931	9.8532680	2672
31 5809,397	9.7641311	1769	10.2358689	17213,489 29	31 7137,320	9.8535352	2671
32 5811,765	9.7643080	1769	10.2356920	17206,477 28	32 7141,712	9.8538023	2671
33 5814,132	9.7644849	1767	10.2355151	17199,472 27	33 7146,106	9.8540694	2671
34 5816,498	9.7646616	1766	10.2353384	17192,475 26	34 7150,501	9.8543365	2669
35 5818,864	9.7648382	1765	10.2351618	17185,483 25	35 7154,898	9.8546034	2669
36 5821,230	9.7650147	1764	10.2349853	17178,501 24	36 7159,297	9.8548704	2668
37 5823,595	9.7651911	1763	10.2348089	17171,525 23	37 7163,698	9.8551372	2668
38 5825,959	9.7653674	1762	10.2346326	17164,556 22	38 7168,100	9.8554041	2667
39 5828,323	9.7655436	1761	10.2344564	17157,594 21	39 7172,505	9.8556708	2667
40 5830,687	9.7657197	1760	10.2342803	17150,639 20	40 7176,911	9.8559376	2666
41 5833,050	9.7658957	1758	10.2341043	17143,691 19	41 7181,319	9.8562042	2666
42 5835,412	9.7660715	1758	10.2339285	17136,750 18	42 7185,729	9.8564708	2666
43 5837,774	9.7662473	1756	10.2337527	17129,817 17	43 7190,141	9.8567374	2665
44 5840,136	9.7664229	1756	10.2335771	17122,890 16	44 7194,554	9.8570039	2665
45 5842,497	9.7665985	1754	10.2334015	17115,970 15	45 7198,970	9.8572704	2664
46 5844,857	9.7667739	1753	10.2332261	17109,058 14	46 7203,387	9.8575368	2663
47 5847,217	9.7669492	1752	10.2330508	17102,152 13	47 7207,806	9.8578031	2663
48 5849,577	9.7671244	1752	10.2328756	17095,254 12	48 7212,227	9.8580694	2663
49 5851,936	9.7672996	1750	10.2327004	17088,362 11	49 7216,650	9.8583357	2662
50 5854,294	9.7674746	1748	10.2325254	17081,478 10	50 7221,075	9.8586015	2661
51 5856,652	9.7676494	1748	10.2323506	17074,601 9	51 7225,502	9.8588680	2661
52 5859,010	9.7678242	1747	10.2321758	17067,730 8	52 7229,930	9.8591341	2661
53 5861,367	9.7679989	1746	10.2320011	17060,867 7	53 7234,361	9.8594002	2659
54 5863,724	9.7681735	1745	10.2318263	17054,010 6	54 7238,793	9.8596661	2659
55 5866,080	9.7683480	1743	10.2316520	17047,160 5	55 7243,227	9.8599321	2659
56 5868,435	9.7685223	1743	10.2314777	17040,318 4	56 7247,663	9.8601980	2658
57 5870,790	9.7686966	1741	10.2313034	17033,482 3	57 7252,101	9.8604638	2658
58 5873,145	9.7688707	1741	10.2311293	17026,653 2	58 7256,540	9.8607296	2658
59 5875,499	9.7690448	1739	10.2309552	17019,831 1	59 7260,982	9.8609954	2656
60 5877,853	9.7692187	1739	10.2307813	17013,016 0	60 7265,425	9.8612610	2656
Co-fines		Diff.	L. Sec.	N. Sec. M.	Co-tangents		Diff.

# 54 Degrees

# 25 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
2688	10.1547732	14281,480	60	12207,740	10.0866355	885	9.9133645	8191,520
2688	10.1545044	14272,642	59	12210,233	10.0867444	885	9.9132760	8189,852
2688	10.1542356	14263,811	58	12212,723	10.0868125	885	9.9131875	8188,182
2686	10.1539668	14254,988	57	12215,215	10.0869011	886	9.9130989	8186,512
2687	10.1536982	14246,171	56	12217,708	10.0869898	887	9.9130102	8184,841
2685	10.1534295	14237,352	55	12220,204	10.0870785	887	9.9129215	8183,169
2685	10.1531611	14228,531	54	12222,702	10.0871672	888	9.9128328	8181,497
2683	10.1528925	14219,700	53	12225,202	10.0872560	888	9.9127440	8179,824
2683	10.1526240	14210,879	52	12227,703	10.0873449	889	9.9126551	8178,151
2683	10.1523556	14202,200	51	12230,207	10.0874338	889	9.9125662	8176,476
2683	10.1520873	14193,427	50	12232,713	10.0875228	890	9.9124772	8174,801
2682	10.1518190	14184,662	49	12235,222	10.0876118	891	9.9123882	8173,125
2682	10.1515508	14175,904	48	12237,732	10.0877006	891	9.9122991	8171,449
2681	10.1512826	14167,153	47	12240,244	10.0877890	892	9.9122099	8169,772
2681	10.1510145	14158,409	46	12242,758	10.0878775	892	9.9121207	8168,094
2681	10.1507464	14149,673	45	12245,274	10.0879663	893	9.9120315	8166,416
2680	10.1504784	14140,943	44	12247,793	10.0880578	893	9.9119422	8164,736
2679	10.1502104	14132,221	43	12250,313	10.0881472	894	9.9118528	8163,056
2679	10.1499425	14123,506	42	12252,836	10.0882366	894	9.9117634	8161,376
2678	10.1496747	14114,799	41	12255,361	10.0883261	895	9.9116739	8159,695
2677	10.1494069	14106,099	40	12257,887	10.0884150	895	9.9115844	8158,013
2677	10.1491392	14097,405	39	12260,416	10.0885052	896	9.9114948	8156,330
2676	10.1488715	14088,718	38	12262,947	10.0885949	897	9.9114051	8154,647
2676	10.1486039	14080,035	37	12265,480	10.0886845	898	9.9113155	8152,963
2675	10.1483363	14071,367	36	12268,015	10.0887743	898	9.9112257	8151,278
2675	10.1480688	14062,702	35	12270,552	10.0888641	898	9.9111359	8149,593
2674	10.1478013	14054,044	34	12273,091	10.0889540	899	9.9110460	8147,906
2674	10.1475339	14045,393	33	12275,633	10.0890439	900	9.9109561	8146,220
2673	10.1472665	14036,749	32	12278,170	10.0891339	900	9.9108661	8144,532
2672	10.1469992	14028,113	31	12280,722	10.0892239	901	9.9107761	8142,844
2672	10.1467320	14019,483	30	12283,269	10.0893140	901	9.9106860	8141,155
2671	10.1464648	14010,860	29	12285,819	10.0894041	902	9.9105959	8139,466
2671	10.1461977	14002,245	28	12288,371	10.0894943	902	9.9105057	8137,778
2671	10.1459306	13993,636	27	12290,924	10.0895845	903	9.9104155	8136,084
2669	10.1456635	13985,034	26	12293,480	10.0896749	904	9.9103251	8134,393
2670	10.1453966	13976,440	25	12296,039	10.0897652	904	9.9102348	8132,701
2668	10.1451296	13967,852	24	12298,599	10.0898555	905	9.9101444	8131,008
2669	10.1448628	13959,272	23	12301,161	10.0899461	905	9.9100539	8129,314
2667	10.1445959	13950,698	22	12303,725	10.0900366	906	9.9099634	8127,620
2668	10.1443292	13942,131	21	12306,292	10.0901272	907	9.9098728	8125,925
2666	10.1440624	13933,567	20	12308,861	10.0902179	907	9.9097821	8124,229
2666	10.1437958	13925,019	19	12311,432	10.0903085	908	9.9096915	8122,532
2666	10.1435292	13916,473	18	12314,004	10.0903993	908	9.9096007	8120,835
2665	10.1432626	13907,934	17	12316,579	10.0904901	909	9.9095099	8119,137
2665	10.1429961	13899,401	16	12319,156	10.0905810	909	9.9094190	8117,439
2664	10.1427296	13890,876	15	12321,736	10.0906719	910	9.9093281	8115,740
2663	10.1424632	13882,358	14	12324,317	10.0907629	910	9.9092371	8114,040
2663	10.1421969	13873,847	13	12326,900	10.0908539	911	9.9091461	8112,339
2663	10.1419306	13865,342	12	12329,486	10.0909450	911	9.9090550	8110,638
2662	10.1416643	13856,844	11	12332,074	10.0910361	912	9.9089639	8108,936
2661	10.1413981	13848,353	10	12334,664	10.0911273	913	9.9088727	8107,234
2661	10.1411320	13839,869	9	12337,256	10.0912186	913	9.9087814	8105,530
2661	10.1408659	13831,392	8	12339,850	10.0913099	913	9.9086901	8103,826
2659	10.1405998	13822,922	7	12342,446	10.0914012	913	9.9085988	8102,122
2659	10.1403339	13814,458	6	12345,044	10.0914927	914	9.9085073	8100,416
2660	10.1400679	13806,001	5	12347,645	10.0915841	914	9.9084159	8098,710
2659	10.1398020	13797,551	4	12350,248	10.0916757	916	9.9083243	8097,004
2658	10.1395362	13789,108	3	12352,852	10.0917673	916	9.9082327	8095,290
2658	10.1392704	13780,672	2	12355,459	10.0918589	917	9.9081411	8093,588
2656	10.1390046	13772,242	1	12358,069	10.0919506	918	9.9080494	8091,879
2656	10.1387390	13763,819	0	12360,680	10.0920424	918	9.9079577	8090,170
Diff.	L. Tang.	N. Tan.		Co-secants		D	L. Sine	N. Sine M

# 36 Degrees

M	N. Sine	L. Sine	Diff.	Co-secants	M	N. Tan.	L. Tan.	Diff.
0	5877,853	9.7692187		10.2307813	17013,016	60	7265,425	9.8612610
1	5880,206	9.7693252	1738	10.2306075	17006,208	59	7269,871	9.8615267
2	5882,558	9.7695662	1737	10.2304338	16999,407	58	7274,318	9.8617923
3	5884,910	9.7697398	1736	10.2302602	16992,612	57	7278,767	9.8620578
4	5887,262	9.7699134	1736	10.2300866	16985,825	56	7283,218	9.8623233
5	5889,613	9.7700868	1734	10.2299132	16979,044	55	7287,671	9.8625887
6	5891,964	9.7702601	1733	10.2297399	16972,271	54	7292,125	9.8628541
7	5894,314	9.7704332	1731	10.2295668	16965,504	53	7296,582	9.8631195
8	5896,663	9.7706063	1731	10.2293937	16958,744	52	7301,041	9.8633848
9	5899,012	9.7707793	1730	10.2292207	16951,990	51	7305,501	9.8636500
10	5901,361	9.7709522	1729	10.2290478	16945,244	50	7309,963	9.8639152
11	5903,709	9.7711249	1727	10.2288751	16938,504	49	7314,428	9.8641803
12	5906,057	9.7712976	1727	10.2287024	16931,771	48	7318,894	9.8644454
13	5908,404	9.7714702	1726	10.2285298	16925,045	47	7323,362	9.8647105
14	5910,750	9.7716426	1724	10.2283574	16918,326	46	7327,832	9.8649755
15	5913,096	9.7718150	1724	10.2281850	16911,613	45	7332,303	9.8652404
16	5915,442	9.7719872	1722	10.2280128	16904,907	44	7336,777	9.8655055
17	5917,787	9.7721593	1721	10.2278407	16898,208	43	7341,253	9.8657702
18	5920,132	9.7723314	1721	10.2276686	16891,516	42	7345,730	9.8660350
19	5922,476	9.7725033	1719	10.2274967	16884,830	41	7350,210	9.8662997
20	5924,819	9.7726751	1718	10.2273249	16878,151	40	7354,691	9.8665644
21	5927,163	9.7728468	1717	10.2271532	16871,479	39	7359,174	9.8668291
22	5929,505	9.7730185	1717	10.2269815	16864,814	38	7363,660	9.8670937
23	5931,847	9.7731900	1715	10.2268100	16858,155	37	7368,147	9.8673583
24	5934,189	9.7733614	1714	10.2266386	16851,503	36	7372,636	9.8676228
25	5936,530	9.7735327	1713	10.2264673	16844,857	35	7377,127	9.8678873
26	5938,871	9.7737039	1712	10.2262961	16838,219	34	7381,620	9.8681517
27	5941,211	9.7738749	1710	10.2261251	16831,586	33	7386,115	9.8684160
28	5943,550	9.7740459	1710	10.2259541	16824,961	32	7390,611	9.8686804
29	5945,889	9.7742168	1709	10.2257832	16818,342	31	7395,110	9.8689449
30	5948,228	9.7743876	1708	10.2256124	16811,730	30	7399,611	9.8692098
31	5950,566	9.7745583	1707	10.2254417	16805,124	29	7404,113	9.8694731
32	5952,904	9.7747288	1705	10.2252712	16798,525	28	7408,618	9.8697372
33	5955,241	9.7748993	1705	10.2251007	16791,933	27	7413,124	9.8700015
34	5957,577	9.7750697	1704	10.2249303	16785,347	26	7417,633	9.8702653
35	5959,913	9.7752399	1702	10.2247601	16778,768	25	7422,143	9.8705293
36	5962,249	9.7754101	1702	10.2245899	16772,195	24	7426,655	9.8707933
37	5964,584	9.7755801	1700	10.2244199	16765,629	23	7431,170	9.8710572
38	5966,918	9.7757501	1700	10.2242499	16759,070	22	7435,686	9.8713210
39	5969,252	9.7759199	1698	10.2240801	16752,517	21	7440,204	9.8715848
40	5971,586	9.7760897	1698	10.2239103	16745,970	20	7444,724	9.8718486
41	5973,919	9.7762593	1696	10.2237407	16739,430	19	7449,246	9.8721123
42	5976,251	9.7764288	1696	10.2235711	16732,897	18	7453,770	9.8723760
43	5978,583	9.7765983	1694	10.2234017	16726,370	17	7458,296	9.8726396
44	5980,915	9.7767676	1693	10.2232324	16719,850	16	7462,824	9.8729032
45	5983,246	9.7769369	1693	10.2230631	16713,336	15	7467,354	9.8731668
46	5985,577	9.7771060	1691	10.2228940	16706,828	14	7471,886	9.8734302
47	5987,906	9.7772750	1690	10.2227250	16700,328	13	7476,420	9.8736937
48	5990,236	9.7774439	1689	10.2225561	16693,833	12	7480,956	9.8739571
49	5992,565	9.7776128	1689	10.2223872	16687,345	11	7485,494	9.8742204
50	5994,893	9.7777815	1687	10.2222185	16680,864	10	7490,033	9.8744838
51	5997,221	9.7779501	1686	10.2220495	16674,389	9	7494,575	9.8747476
52	5999,549	9.7781186	1685	10.2218811	16667,920	8	7499,119	9.8750102
53	6001,876	9.7782870	1684	10.2217130	16661,458	7	7503,665	9.8752734
54	6004,202	9.7784553	1683	10.2215447	16655,002	6	7508,212	9.8755365
55	6006,528	9.7786235	1682	10.2213765	16648,555	5	7512,762	9.8757996
56	6008,854	9.7787916	1681	10.2212084	16642,110	4	7517,314	9.8760627
57	6011,179	9.7789596	1680	10.2210404	16635,673	3	7521,867	9.8763257
58	6013,503	9.7791275	1678	10.2208725	16629,243	2	7526,423	9.8765886
59	6015,827	9.7792953	1677	10.2207047	16622,819	1	7530,981	9.8768515
60	6018,150	9.7794630	1677	10.2205370	16616,401	0	7535,541	9.8771144
	Co-fines		Diff.	L. Sec.	N. Sec.		Co-tangents	Diff.

# 36 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
	10.1387390	13763,819	60	12360,680	10.0920424	918	9.9079576	8090,170
2657	10.1384733	13755,403	59	12363,293	10.0921342	918	9.9078658	8088,466
2656	10.1382077	13746,994	58	12365,905	10.0922260	920	9.9077740	8086,749
2655	10.1379422	13738,585	57	12368,526	10.0923180	919	9.9076820	8085,037
2654	10.1376767	13730,195	56	12371,140	10.0924095	921	9.9075901	8083,325
2653	10.1374113	13721,806	55	12373,768	10.0925020	921	9.9074980	8081,612
2652	10.1371459	13713,423	54	12376,393	10.0925941	921	9.9074059	8079,899
2651	10.1368805	13705,047	53	12379,019	10.0926862	922	9.9073138	8078,185
2650	10.1366152	13696,678	52	12381,647	10.0927784	923	9.9072216	8076,470
2649	10.1363500	13688,315	51	12384,278	10.0928707	923	9.9071293	8074,754
2648	10.1360848	13679,959	50	12386,911	10.0929630	924	9.9070370	8073,038
2647	10.1358197	13671,610	49	12389,546	10.0930554	924	9.9069446	8071,321
2646	10.1355546	13663,267	48	12392,183	10.0931478	925	9.9068522	8069,603
2645	10.1352895	13654,931	47	12394,823	10.0932403	926	9.9067597	8067,885
2644	10.1350245	13646,602	46	12397,464	10.0933329	926	9.9066671	8066,166
2643	10.1347596	13638,279	45	12400,108	10.0934255	926	9.9065745	8064,446
2642	10.1344947	13629,963	44	12402,754	10.0935181	927	9.9064819	8062,726
2641	10.1342298	13621,653	43	12405,402	10.0936108	928	9.9063892	8061,005
2640	10.1339650	13613,350	42	12408,052	10.0937036	928	9.9062964	8059,283
2639	10.1337003	13605,054	41	12410,704	10.0937964	929	9.9062036	8057,560
2638	10.1334356	13596,764	40	12413,359	10.0938893	930	9.9061107	8055,837
2637	10.1331709	13588,481	39	12416,016	10.0939823	930	9.9060177	8054,113
2636	10.1329063	13580,204	38	12418,675	10.0940753	930	9.9059247	8052,389
2635	10.1326417	13571,934	37	12421,336	10.0941683	931	9.9058317	8050,664
2634	10.1323772	13563,670	36	12423,999	10.0942614	932	9.9057386	8048,938
2633	10.1321127	13555,413	35	12426,665	10.0943546	932	9.9056454	8047,211
2632	10.1318483	13547,162	34	12429,333	10.0944478	933	9.9055522	8045,484
2631	10.1315840	13538,918	33	12432,003	10.0945411	933	9.9054589	8043,756
2630	10.1313196	13530,680	32	12434,675	10.0946344	934	9.9053656	8042,028
2629	10.1310554	13522,449	31	12437,349	10.0947278	935	9.9052722	8040,299
2628	10.1307911	13514,224	30	12440,026	10.0948213	935	9.9051787	8038,569
2627	10.1305269	13506,006	29	12442,704	10.0949148	936	9.9050852	8036,838
2626	10.1302628	13497,794	28	12445,385	10.0950084	936	9.9049916	8035,107
2625	10.1299987	13489,589	27	12448,069	10.0951020	937	9.9048980	8033,375
2624	10.1297347	13481,390	26	12450,754	10.0951957	937	9.9048043	8031,642
2623	10.1294707	13473,198	25	12453,442	10.0952894	938	9.9047106	8029,909
2622	10.1292067	13465,011	24	12456,131	10.0953832	938	9.9046168	8028,175
2621	10.1289428	13456,832	23	12458,823	10.0954770	939	9.9045230	8026,440
2620	10.1286790	13448,658	22	12461,518	10.0955709	940	9.9044291	8024,705
2619	10.1284152	13440,492	21	12464,214	10.0956649	940	9.9043351	8022,969
2618	10.1281514	13432,331	20	12466,913	10.0957589	941	9.9042411	8021,232
2617	10.1278877	13424,177	19	12469,614	10.0958530	941	9.9041470	8019,495
2616	10.1276240	13416,029	18	12472,317	10.0959471	942	9.9040529	8017,756
2615	10.1273604	13407,888	17	12475,022	10.0960413	942	9.9039587	8016,018
2614	10.1270968	13399,753	16	12477,730	10.0961356	943	9.9038644	8014,278
2613	10.1268332	13391,624	15	12480,440	10.0962299	943	9.9037701	8012,538
2612	10.1265698	13383,502	14	12483,152	10.0963243	944	9.9036757	8010,797
2611	10.1263063	13375,386	13	12485,866	10.0964187	945	9.9035813	8009,056
2610	10.1260429	13367,276	12	12488,583	10.0965132	945	9.9034868	8007,314
2609	10.1257796	13359,172	11	12491,302	10.0966077	946	9.9033923	8005,571
2608	10.1255162	13351,075	10	12494,023	10.0967023	946	9.9032977	8003,827
2607	10.1252530	13342,984	9	12496,746	10.0967969	947	9.9032031	8002,083
2606	10.1249898	13334,900	8	12499,471	10.0968916	948	9.9031084	8000,338
2605	10.1247266	13326,822	7	12502,199	10.0969864	948	9.9030136	7998,593
2604	10.1244635	13318,750	6	12504,929	10.0970812	949	9.9029188	7996,847
2603	10.1242004	13310,684	5	12507,661	10.0971761	949	9.9028239	7995,100
2602	10.1239373	13302,624	4	12510,396	10.0972711	950	9.9027289	7993,352
2601	10.1236743	13294,571	3	12513,133	10.0973661	950	9.9026339	7991,604
2600	10.1234114	13286,524	2	12515,872	10.0974611	951	9.9025389	7989,855
2599	10.1231485	13278,483	1	12518,613	10.0975562	952	9.9024438	7988,105
2598	10.1228856	13270,448	0	12521,357	10.0976514	952	9.9023486	7986,355
Diff.	L. Tang.	N. Tan	M.	Co-secants		D	L. Sine	N. Sine

# 37 Degrees

M	N. Sine	L. Sine	Diff	Co-secants	M	N. Tan	L. Tan	Diff
0	018,130	9.7794630	1676	10.2205370	16616,401	0.7535,541	-8.771144	2628
1	020,473	9.7796306	1675	10.2203694	16609,950	1.7540,103	9.8773772	2628
2	022,795	9.7797981	1674	10.2202019	16603,586	2.7544,666	9.8776400	2627
3	025,117	9.7799655	1673	10.2200345	16597,187	3.7549,232	9.8779027	2627
4	027,439	9.7801328	1672	10.2198670	16590,795	4.7553,795	9.8781654	2626
5	029,760	9.7803000	1671	10.2197000	16584,405	5.7558,369	9.8784281	2626
6	032,080	9.7804671	1670	10.2195329	16578,030	6.7562,941	9.8786907	2626
7	034,400	9.7806341	1669	10.2193659	16571,657	7.7567,514	9.8789533	2625
8	036,719	9.7808010	1667	10.2191980	16565,250	8.7572,080	9.8792158	2624
9	039,038	9.7809677	1667	10.2190323	16558,829	9.7576,668	9.8794782	2623
10	041,356	9.7811344	1666	10.2188656	16552,375	10.7581,248	9.8797407	2623
11	043,674	9.7813010	1665	10.2186990	16545,897	11.7585,829	9.8800031	2622
12	045,991	9.7814675	1664	10.2185325	16539,385	12.7590,413	9.8802654	2621
13	048,308	9.7816335	1663	10.2183661	16532,850	13.7594,999	9.8805277	2620
14	050,624	9.7818000	1662	10.2181998	16526,281	14.7599,587	9.8807900	2620
15	052,940	9.7819664	1660	10.2180336	16520,688	15.7604,177	9.8810522	2619
16	055,255	9.7821324	1660	10.2178670	16514,581	16.7608,769	9.8813144	2618
17	057,570	9.7822984	1659	10.2177016	16508,270	17.7613,363	9.8815765	2617
18	059,884	9.7824643	1658	10.2175357	16501,966	18.7617,959	9.8818386	2616
19	062,198	9.7826301	1657	10.2173699	16495,668	19.7622,557	9.8821007	2615
20	064,511	9.7827958	1656	10.2172042	16489,376	20.7627,157	9.8823627	2615
21	066,824	9.7829614	1654	10.2170386	16483,090	21.7631,759	9.8826240	2614
22	069,136	9.7831268	1654	10.2168732	16476,811	22.7636,363	9.8828866	2614
23	071,447	9.7832922	1653	10.2167078	16470,537	23.7640,969	9.8831484	2613
24	073,758	9.7834575	1652	10.2165423	16464,270	24.7645,577	9.8834103	2613
25	076,066	9.7836227	1651	10.2163773	16458,009	25.7650,188	9.8836721	2612
26	078,379	9.7837878	1650	10.2162122	16451,754	26.7654,800	9.8839338	2612
27	080,689	9.7839528	1649	10.2160472	16445,506	27.7659,414	9.8841956	2611
28	082,998	9.7841177	1647	10.2158823	16439,263	28.7664,031	9.8844572	2610
29	085,306	9.7842824	1647	10.2157176	16433,027	29.7668,649	9.8847189	2610
30	087,614	9.7844471	1646	10.2155529	16426,750	30.7673,270	9.8849805	2610
31	089,922	9.7846117	1645	10.2153883	16420,572	31.7677,893	9.8852420	2610
32	092,229	9.7847762	1644	10.2152238	16414,354	32.7682,517	9.8855035	2610
33	094,535	9.7849406	1643	10.2150594	16408,142	33.7687,144	9.8857650	2610
34	096,841	9.7851049	1642	10.2148951	16401,936	34.7691,773	9.8860264	2610
35	099,147	9.7852691	1641	10.2147309	16395,736	35.7696,404	9.8862878	2610
36	101,452	9.7854332	1640	10.2145668	16389,542	36.7701,037	9.8865492	2610
37	103,756	9.7855972	1639	10.2144028	16383,355	37.7705,672	9.8868105	2610
38	106,060	9.7857611	1638	10.2142389	16377,173	38.7710,309	9.8870718	2610
39	108,363	9.7859249	1637	10.2140751	16370,997	39.7714,948	9.8873330	2610
40	110,666	9.7860886	1636	10.2139114	16364,828	40.7719,589	9.8875942	2610
41	112,969	9.7862522	1635	10.2137478	16358,664	41.7724,233	9.8878554	2610
42	115,270	9.7864157	1634	10.2135843	16352,507	42.7728,878	9.8881165	2610
43	117,572	9.7865791	1633	10.2134209	16346,355	43.7733,526	9.8883775	2610
44	119,873	9.7867424	1632	10.2132576	16340,210	44.7738,176	9.8886386	2610
45	122,173	9.7869056	1631	10.2130944	16334,070	45.7742,827	9.8888996	2609
46	124,473	9.7870687	1630	10.2129313	16327,937	46.7747,481	9.8891605	2609
47	126,772	9.7872317	1629	10.2127683	16321,805	47.7752,137	9.8894213	2609
48	129,071	9.7873946	1628	10.2126054	16315,686	48.7756,795	9.8896823	2609
49	131,369	9.7875575	1628	10.2124426	16309,572	49.7761,455	9.8899432	2608
50	133,666	9.7877202	1626	10.2122798	16303,462	50.7766,118	9.8902040	2607
51	135,964	9.7878828	1625	10.2121172	16297,359	51.7770,782	9.8904646	2607
52	138,260	9.7880453	1624	10.2119547	16291,261	52.7775,447	9.8907254	2607
53	140,556	9.7882077	1624	10.2117923	16285,161	53.7780,117	9.8909861	2607
54	142,852	9.7883701	1622	10.2116299	16279,083	54.7784,788	9.8912468	2606
55	145,147	9.7885323	1621	10.2114677	16273,003	55.7789,460	9.8915074	2605
56	147,442	9.7886944	1621	10.2113050	16266,925	56.7794,135	9.8917679	2605
57	149,736	9.7888565	1619	10.2111435	16260,861	57.7798,812	9.8920285	2605
58	152,029	9.7890184	1618	10.2109810	16254,795	58.7803,492	9.8922890	2604
59	154,322	9.7891802	1618	10.2108198	16248,743	59.7808,173	9.8925495	2604
60	156,615	9.7893420	1617	10.2106580	16242,692	60.7812,856	9.8928098	2604
	Co-sines		Diff	L. Sec.	N. Sec.	M	Co-tangents	Diff

# 52 Degrees

# 37 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	D	Co-lines		
	10.1228856	13270.448	60	0	12521.357	10.0976514	952	9.9023486	7986.355	60
2628	10.1226228	13262.420	59	1	12524.102	10.0977466	953	9.9022534	7984.604	59
2628	10.1223600	13254.397	58	2	12526.850	10.0978419	953	9.9021581	7982.853	58
2627	10.1220973	13246.381	57	3	12529.601	10.0979372	954	9.9020628	7981.100	57
2627	10.1218346	13238.371	56	4	12532.353	10.0980326	954	9.9019674	7979.347	56
2627	10.1215719	13230.368	55	5	12535.108	10.0981281	955	9.9018719	7977.594	55
2626	10.1213093	13222.370	54	6	12537.865	10.0982236	955	9.9017764	7975.839	54
2626	10.1210467	13214.379	53	7	12540.625	10.0983192	956	9.9016808	7974.084	53
2625	10.1207842	13206.393	52	8	12543.387	10.0984148	956	9.9015852	7972.329	52
2624	10.1205218	13198.414	51	9	12546.151	10.0985105	957	9.9014895	7970.572	51
2625	10.1202593	13190.441	50	10	12548.917	10.0986062	957	9.9013938	7968.815	50
2624	10.1199969	13182.474	49	11	12551.685	10.0987020	958	9.9012980	7967.058	49
2623	10.1197346	13174.513	48	12	12554.456	10.0987979	959	9.9012021	7965.299	48
2623	10.1194723	13166.559	47	13	12557.229	10.0988938	959	9.9011062	7963.540	47
2622	10.1192100	13158.608	46	14	12560.005	10.0989898	960	9.9010102	7961.780	46
2622	10.1189478	13150.668	45	15	12562.782	10.0990858	960	9.9009142	7960.020	45
2621	10.1186856	13142.731	44	16	12565.562	10.0991819	961	9.9008181	7958.259	44
2621	10.1184235	13134.801	43	17	12568.345	10.0992781	962	9.9007219	7956.497	43
2621	10.1181614	13126.876	42	18	12571.129	10.0993743	962	9.9006257	7954.735	42
2621	10.1178993	13118.958	41	19	12573.916	10.0994706	963	9.9005294	7952.972	41
2620	10.1176373	13111.046	40	20	12576.705	10.0995669	963	9.9004331	7951.208	40
2619	10.1173754	13103.140	39	21	12579.497	10.0996633	964	9.9003367	7949.444	39
2620	10.1171134	13095.239	38	22	12582.291	10.0997597	964	9.9002403	7947.678	38
2618	10.1168516	13087.343	37	23	12585.087	10.0998562	965	9.9001438	7945.913	37
2619	10.1165897	13079.457	36	24	12587.885	10.0999528	966	9.9000472	7944.146	36
2618	10.1163279	13071.575	35	25	12590.686	10.1000494	966	9.8999506	7942.379	35
2617	10.1160662	13063.699	34	26	12593.489	10.1001461	967	9.8998539	7940.611	34
2618	10.1158044	13055.823	33	27	12596.294	10.1002428	967	9.8997572	7938.843	33
2616	10.1155428	13047.964	32	28	12599.102	10.1003396	968	9.8996604	7937.074	32
2617	10.1152811	13040.106	31	29	12601.912	10.1004364	969	9.8995636	7935.304	31
2616	10.1150195	13032.254	30	30	12604.724	10.1005333	970	9.8994667	7933.533	30
2615	10.1147580	13024.407	29	31	12607.539	10.1006303	970	9.8993697	7931.762	29
2615	10.1144965	13016.567	28	32	12610.356	10.1007273	971	9.8992727	7929.990	28
2615	10.1142350	13008.733	27	33	12613.175	10.1008244	971	9.8991756	7928.218	27
2614	10.1139736	13000.904	26	34	12615.997	10.1009216	972	9.8990784	7926.445	26
2614	10.1137122	12993.081	25	35	12618.820	10.1010188	972	9.8989812	7924.671	25
2614	10.1134508	12985.265	24	36	12621.647	10.1011160	973	9.8988840	7922.896	24
2613	10.1131895	12977.454	23	37	12624.475	10.1012133	973	9.8987867	7921.121	23
2613	10.1129282	12969.649	22	38	12627.306	10.1013107	974	9.8986893	7919.345	22
2612	10.1126670	12961.850	21	39	12630.140	10.1014081	974	9.8985919	7917.569	21
2612	10.1124058	12954.057	20	40	12632.975	10.1015056	975	9.8984944	7915.792	20
2612	10.1121446	12946.270	19	41	12635.813	10.1016032	976	9.8983968	7914.014	19
2611	10.1118835	12938.488	18	42	12638.653	10.1017008	976	9.8982992	7912.235	18
2610	10.1116225	12930.713	17	43	12641.496	10.1017985	977	9.8982015	7910.456	17
2611	10.1113614	12922.943	16	44	12644.341	10.1018962	977	9.8981038	7908.676	16
2610	10.1111004	12915.179	15	45	12647.188	10.1019940	978	9.8980060	7906.896	15
2609	10.1108395	12907.421	14	46	12650.038	10.1020918	978	9.8979082	7905.115	14
2609	10.1105786	12899.669	13	47	12652.890	10.1021897	979	9.8978103	7903.333	13
2609	10.1103177	12891.922	12	48	12655.745	10.1022877	980	9.8977123	7901.550	12
2609	10.1100568	12884.182	11	49	12658.601	10.1023857	980	9.8976143	7899.767	11
2608	10.1097960	12876.447	10	50	12661.460	10.1024838	981	9.8975162	7897.983	10
2607	10.1095353	12868.718	9	51	12664.322	10.1025819	981	9.8974181	7896.198	9
2607	10.1092746	12860.995	8	52	12667.186	10.1026801	982	9.8973199	7894.413	8
2607	10.1090139	12853.277	7	53	12670.052	10.1027784	983	9.8972217	7892.627	7
2607	10.1087532	12845.566	6	54	12672.921	10.1028767	983	9.8971233	7890.841	6
2606	10.1084926	12837.860	5	55	12675.792	10.1029751	984	9.8970249	7889.054	5
2605	10.1082321	12830.160	4	56	12678.665	10.1030735	985	9.8969265	7887.266	4
2606	10.1079715	12822.465	3	57	12681.541	10.1031720	986	9.8968280	7885.477	3
2605	10.1077110	12814.776	2	58	12684.419	10.1032706	986	9.8967294	7883.688	2
2604	10.1074506	12807.094	1	59	12687.299	10.1033692	987	9.8966308	7881.898	1
2604	10.1071902	12799.416	0	60	12690.182	10.1034679	987	9.8965321	7880.108	0
Diff	L. Tang	N. Tan.	M		Co-secants		D	L. Sine	N. Sine	A.

# 52 Degrees

# 38 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants		M. N. Tan.	L. Tan.	Diff.
0 6156,615	9.7893420	1616	10.2106580	16242,692	0 7812,856	9.8928098	2604
1 6158,997	9.7895936	1616	10.2104964	16236,648	1 7817,542	9.8933070	2604
2 6161,198	9.7898652	1616	10.2103348	16230,609	2 7822,229	9.8938330	2604
3 6163,389	9.7898266	1614	10.2101734	16224,576	3 7826,919	9.8935905	2602
4 6165,780	9.7899880	1613	10.2100120	16218,549	4 7831,611	9.8938511	2603
5 6168,669	9.7901493	1611	10.2098507	16212,528	5 7836,305	9.8941114	2601
6 6170,359	9.7903104	1611	10.2096896	16206,513	6 7841,002	9.8943715	2601
7 6172,648	9.7904715	1610	10.2095285	16200,504	7 7845,700	9.8946317	2602
8 6174,936	9.7906325	1608	10.2093675	16194,500	8 7850,400	9.8948918	2601
9 6177,224	9.7907933	1608	10.2092067	16188,502	9 7855,103	9.8951519	2600
10 6179,511	9.7909541	1607	10.2090459	16182,510	10 7859,808	9.8954119	2600
11 6181,798	9.7911148	1606	10.2088852	16176,524	11 7864,515	9.8956719	2598
12 6184,084	9.7912754	1605	10.2087246	16170,544	12 7869,224	9.8959319	2598
13 6186,370	9.7914359	1604	10.2085641	16164,569	13 7873,935	9.8961918	2597
14 6188,655	9.7915963	1603	10.2084037	16158,600	14 7878,649	9.8964517	2597
15 6190,939	9.7917566	1602	10.2082434	16152,637	15 7883,364	9.8967116	2596
16 6193,224	9.7919168	1601	10.2080832	16146,680	16 7888,082	9.8969714	2596
17 6195,507	9.7920769	1600	10.2079231	16140,728	17 7892,802	9.8972312	2594
18 6197,790	9.7922369	1599	10.2077631	16134,783	18 7897,524	9.8974910	2594
19 6200,073	9.7923968	1598	10.2076032	16128,843	19 7902,248	9.8977507	2597
20 6202,355	9.7925566	1597	10.2074434	16122,908	20 7906,975	9.8980104	2597
21 6204,636	9.7927163	1597	10.2072837	16116,980	21 7911,703	9.8982700	2596
22 6206,917	9.7928760	1595	10.2071240	16111,057	22 7916,434	9.8985296	2596
23 6209,198	9.7930355	1594	10.2069645	16105,140	23 7921,167	9.8987892	2596
24 6211,478	9.7931949	1594	10.2068051	16099,228	24 7925,902	9.8990487	2595
25 6213,757	9.7933543	1592	10.2066457	16093,323	25 7930,640	9.8993082	2595
26 6216,036	9.7935135	1592	10.2064865	16087,423	26 7935,379	9.8995677	2594
27 6218,314	9.7936727	1590	10.2063273	16081,528	27 7940,121	9.8998271	2594
28 6220,592	9.7938317	1589	10.2061683	16075,640	28 7944,865	9.9000865	2594
29 6222,870	9.7939907	1589	10.2060093	16069,757	29 7949,611	9.9003459	2593
30 6225,146	9.7941496	1587	10.2058504	16063,879	30 7954,359	9.9006052	2593
31 6227,423	9.7943083	1587	10.2056917	16058,008	31 7959,110	9.9008645	2593
32 6229,698	9.7944670	1586	10.2055330	16052,142	32 7963,862	9.9011237	2592
33 6231,974	9.7946256	1585	10.2053744	16046,281	33 7968,617	9.9013830	2592
34 6234,248	9.7947841	1584	10.2052159	16040,426	34 7973,374	9.9016422	2592
35 6236,522	9.7949425	1583	10.2050575	16034,577	35 7978,134	9.9019013	2591
36 6238,796	9.7951008	1582	10.2048992	16028,734	36 7982,895	9.9021604	2591
37 6241,069	9.7952590	1581	10.2047410	16022,896	37 7987,659	9.9024195	2591
38 6243,342	9.7954171	1580	10.2045829	16017,064	38 7992,425	9.9026786	2591
39 6245,614	9.7955751	1579	10.2044249	16011,237	39 7997,193	9.9029376	2590
40 6247,885	9.7957330	1579	10.2042670	16005,416	40 8001,963	9.9031966	2589
41 6250,156	9.7958909	1577	10.2041091	15999,600	41 8006,730	9.9034555	2589
42 6252,427	9.7960486	1576	10.2039514	15993,790	42 8011,511	9.9037144	2588
43 6254,696	9.7962062	1576	10.2037938	15987,986	43 8016,288	9.9039733	2588
44 6256,966	9.7963638	1574	10.2036362	15982,187	44 8021,067	9.9042321	2589
45 6259,235	9.7965212	1574	10.2034788	15976,394	45 8025,849	9.9044910	2587
46 6261,503	9.7966786	1573	10.2033214	15970,606	46 8030,632	9.9047497	2588
47 6263,771	9.7968359	1571	10.2031641	15964,824	47 8035,418	9.9050085	2587
48 6266,038	9.7969930	1571	10.2030070	15959,048	48 8040,206	9.9052672	2587
49 6268,305	9.7971501	1570	10.2028499	15953,276	49 8044,997	9.9055259	2586
50 6270,571	9.7973071	1569	10.2026929	15947,511	50 8049,790	9.9057845	2586
51 6272,837	9.7974640	1568	10.2025360	15941,751	51 8054,584	9.9060431	2586
52 6275,102	9.7976208	1567	10.2023792	15936,006	52 8059,382	9.9063017	2586
53 6277,366	9.7977775	1566	10.2022225	15930,247	53 8064,181	9.9065603	2585
54 6279,631	9.7979341	1565	10.2020659	15924,494	54 8068,983	9.9068188	2585
55 6281,894	9.7980906	1564	10.2019094	15918,766	55 8073,787	9.9070773	2584
56 6284,157	9.7982470	1564	10.2017530	15913,033	56 8078,595	9.9073357	2584
57 6286,420	9.7984034	1562	10.2015966	15907,306	57 8083,401	9.9075941	2584
58 6288,682	9.7985596	1562	10.2014404	15901,584	58 8088,212	9.9078525	2584
59 6290,943	9.7987158	1560	10.2012842	15895,868	59 8093,025	9.9081109	2583
60 6293,204	9.7988718	1560	10.2011282	15890,157	60 8097,840	9.9083692	2583
Co-lines		Diff.	L. Sec.	N. Sec.	Co-tangents		Diff.

# 51 Degrees

# 38 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	D	Co-fines	
	10.1071902	12799,416	50	12690,182	10.1034679		9.8965321	7880,108
2604	10.1069298	12791,745	59	12693,067	10.1035666	987	9.8964334	7878,316
2604	10.1066694	12784,079	58	12695,955	10.1036654	988	9.8963346	7876,524
2603	10.1064091	12776,419	57	12698,845	10.1037642	988	9.8962358	7874,732
2602	10.1061489	12768,765	56	12701,737	10.1038631	989	9.8961369	7872,939
2603	10.1058886	12761,110	55	12704,632	10.1039621	990	9.8960379	7871,145
2601	10.1056285	12753,473	54	12707,529	10.1040611	990	9.8959389	7869,350
2602	10.1053683	12745,835	53	12710,425	10.1041602	991	9.8958398	7867,555
2601	10.1051082	12738,204	52	12713,331	10.1042594	992	9.8957406	7865,759
2601	10.1048481	12730,578	51	12716,235	10.1043586	992	9.8956414	7863,963
2600	10.1045881	12722,957	50	12719,142	10.1044578	992	9.8955422	7862,168
2600	10.1043281	12715,342	49	12722,052	10.1045571	993	9.8954429	7860,374
2600	10.1040681	12707,733	48	12724,963	10.1046565	994	9.8953435	7858,579
2599	10.1038082	12700,130	47	12727,877	10.1047560	995	9.8952440	7856,784
2599	10.1035483	12692,532	46	12730,794	10.1048555	995	9.8951445	7854,990
2599	10.1032884	12684,940	45	12733,712	10.1049550	995	9.8950450	7853,196
2598	10.1030286	12677,353	44	12736,634	10.1050545	997	9.8949453	7851,402
2598	10.1027688	12669,772	43	12739,557	10.1051543	996	9.8948457	7849,608
2598	10.1025090	12662,196	42	12742,484	10.1052541	998	9.8947459	7847,814
2597	10.1022493	12654,620	41	12745,412	10.1053539	998	9.8946461	7846,020
2597	10.1019896	12647,050	40	12748,343	10.1054537	998	9.8945463	7844,226
2596	10.1017300	12639,503	39	12751,276	10.1055537	1000	9.8944463	7842,432
2596	10.1014704	12631,950	38	12754,212	10.1056536	999	9.8943464	7840,638
2596	10.1012108	12624,402	37	12757,151	10.1057537	1001	9.8942463	7838,844
2595	10.1009513	12616,860	36	12760,091	10.1058538	1001	9.8941462	7837,050
2595	10.1006918	12609,323	35	12762,934	10.1059539	1001	9.8940461	7835,256
2595	10.1004323	12601,792	34	12765,880	10.1060542	1003	9.8939458	7833,462
2594	10.1001729	12594,267	33	12768,828	10.1061544	1002	9.8938455	7831,668
2594	10.0999135	12586,747	32	12771,778	10.1062548	1004	9.8937452	7829,874
2594	10.0996541	12579,232	31	12774,731	10.1063552	1004	9.8936448	7828,080
2593	10.0993948	12571,723	30	12777,687	10.1064556	1004	9.8935444	7826,286
2593	10.0991355	12564,219	29	12780,644	10.1065561	1005	9.8934439	7824,492
2592	10.0988761	12556,721	28	12783,605	10.1066567	1006	9.8933433	7822,698
2593	10.0986170	12549,229	27	12786,567	10.1067574	1007	9.8932426	7820,904
2592	10.0983578	12541,742	26	12789,532	10.1068581	1007	9.8931419	7819,110
2591	10.0980987	12534,260	25	12792,500	10.1069588	1007	9.8930412	7817,316
2591	10.0978396	12526,784	24	12795,570	10.1070596	1008	9.8929404	7815,522
2591	10.0975805	12519,313	23	12798,643	10.1071605	1009	9.8928395	7813,728
2591	10.0973214	12511,848	22	12801,718	10.1072615	1010	9.8927385	7811,934
2590	10.0970624	12504,388	21	12804,795	10.1073625	1010	9.8926373	7810,140
2590	10.0968034	12496,933	20	12807,875	10.1074635	1010	9.8925365	7808,346
2589	10.0965445	12489,484	19	12810,957	10.1075646	1011	9.8924354	7806,552
2589	10.0962856	12482,040	18	12813,442	10.1076658	1012	9.8923342	7804,758
2589	10.0960267	12474,602	17	12816,430	10.1077671	1013	9.8922329	7802,964
2588	10.0957679	12467,169	16	12819,419	10.1078684	1013	9.8921316	7801,170
2589	10.0955090	12459,742	15	12822,412	10.1079697	1014	9.8920303	7799,376
2587	10.0952503	12452,320	14	12825,407	10.1080711	1014	9.8919289	7797,582
2588	10.0949915	12444,903	13	12828,404	10.1081726	1015	9.8918274	7795,788
2587	10.0947328	12437,492	12	12831,404	10.1082742	1016	9.8917258	7793,994
2587	10.0944741	12430,086	11	12834,406	10.1083758	1016	9.8916242	7792,200
2586	10.0942155	12422,685	10	12837,411	10.1084774	1016	9.8915226	7790,406
2586	10.0939569	12415,290	9	12840,418	10.1085792	1017	9.8914208	7788,612
2586	10.0936983	12407,900	8	12843,428	10.1086809	1019	9.8913191	7786,818
2586	10.0934397	12400,515	7	12846,440	10.1087828	1019	9.8912172	7785,024
2585	10.0931812	12393,136	6	12849,455	10.1088847	1019	9.8911153	7783,230
2585	10.0929227	12385,762	5	12852,472	10.1089867	1020	9.8910133	7781,436
2584	10.0926643	12378,393	4	12855,492	10.1090887	1020	9.8909113	7779,642
2584	10.0924058	12371,030	3	12858,514	10.1091908	1021	9.8908092	7777,848
2584	10.0921475	12363,672	2	12861,539	10.1092929	1021	9.8907071	7776,054
2584	10.0918891	12356,319	1	12864,566	10.1093951	1022	9.8906050	7774,260
2583	10.0916308	12348,972	0	12867,596	10.1094974	1023	9.8905026	7772,466
Diff	L. Tang.	N. Tan.	M	Co-secants		D	L. Sine	N. Sine

# 39 Degrees

M	N. Sine	L. Sine	Diff	Co-secants			M	N. Tan.	L. Tan.	Diff
0	6293,204	9.7988718		10.2011282	15890,157	60	0	8097,840	9.9083692	
1	6295,464	9.7990278	1560	10.2009722	15884,452	59	1	8102,658	9.9086275	2583
2	6297,724	9.7991836	1558	10.2008164	15878,752	58	2	8107,478	9.9088858	2582
3	6299,983	9.7993394	1557	10.2006606	15873,058	57	3	8112,300	9.9091440	2582
4	6302,242	9.7994951	1557	10.2005049	15867,365	56	4	8117,124	9.9094022	2582
5	6304,500	9.7996507	1556	10.2003493	15861,685	55	5	8121,951	9.9096603	2581
6	6306,758	9.7998062	1555	10.2001938	15856,007	54	6	8126,780	9.9099185	2582
7	6309,015	9.7999616	1554	10.2000384	15850,334	53	7	8131,611	9.9101766	2581
8	6311,272	9.8001169	1553	10.1998831	15844,667	52	8	8136,444	9.9104347	2581
9	6313,528	9.8002721	1552	10.1997279	15839,005	51	9	8141,280	9.9106927	2580
10	6315,784	9.8004272	1551	10.1995728	15833,348	50	10	8146,118	9.9109507	2580
11	6318,039	9.8005823	1551	10.1994177	15827,697	49	11	8150,958	9.9112087	2580
12	6320,293	9.8007372	1549	10.1992628	15822,051	48	12	8155,801	9.9114666	2579
13	6322,547	9.8008921	1549	10.1991079	15816,411	47	13	8160,646	9.9117245	2579
14	6324,800	9.8010468	1547	10.1989532	15810,776	46	14	8165,493	9.9119824	2579
15	6327,053	9.8012015	1547	10.1987985	15805,146	45	15	8170,343	9.9122403	2579
16	6329,306	9.8013561	1546	10.1986439	15799,521	44	16	8175,195	9.9124981	2578
17	6331,557	9.8015106	1545	10.1984894	15793,902	43	17	8180,049	9.9127559	2578
18	6333,809	9.8016649	1543	10.1983351	15788,289	42	18	8184,905	9.9130137	2578
19	6336,059	9.8018192	1543	10.1981808	15782,680	41	19	8189,764	9.9132714	2577
20	6338,310	9.8019735	1543	10.1980265	15777,077	40	20	8194,623	9.9135291	2577
21	6340,559	9.8021276	1541	10.1978724	15771,479	39	21	8199,483	9.9137868	2577
22	6342,808	9.8022816	1540	10.1977184	15765,887	38	22	8204,344	9.9140444	2576
23	6345,057	9.8024355	1539	10.1975645	15760,300	37	23	8209,222	9.9143022	2576
24	6347,305	9.8025894	1539	10.1974106	15754,718	36	24	8214,093	9.9145596	2576
25	6349,553	9.8027431	1537	10.1972569	15749,141	35	25	8218,965	9.9148171	2575
26	6351,800	9.8028968	1537	10.1971032	15743,570	34	26	8223,840	9.9150745	2575
27	6354,046	9.8030504	1536	10.1969496	15738,004	33	27	8228,718	9.9153322	2575
28	6356,292	9.8032038	1534	10.1967962	15732,443	32	28	8233,597	9.9155896	2574
29	6358,537	9.8033572	1534	10.1966428	15726,887	31	29	8238,479	9.9158471	2575
30	6360,782	9.8035105	1533	10.1964895	15721,337	30	30	8243,364	9.9161045	2574
31	6363,026	9.8036637	1532	10.1963363	15715,792	29	31	8248,251	9.9163618	2573
32	6365,270	9.8038168	1531	10.1961832	15710,252	28	32	8253,140	9.9166192	2574
33	6367,513	9.8039699	1531	10.1960301	15704,717	27	33	8258,031	9.9168765	2575
34	6369,756	9.8041228	1529	10.1958772	15699,188	26	34	8262,925	9.9171338	2575
35	6371,998	9.8042757	1529	10.1957243	15693,664	25	35	8267,821	9.9173911	2573
36	6374,240	9.8044284	1527	10.1955716	15688,145	24	36	8272,719	9.9176483	2572
37	6376,481	9.8045811	1527	10.1954189	15682,631	23	37	8277,620	9.9179055	2572
38	6378,721	9.8047336	1525	10.1952664	15677,123	22	38	8282,523	9.9181627	2572
39	6380,961	9.8048861	1524	10.1951139	15671,619	21	39	8287,429	9.9184198	2571
40	6383,201	9.8050385	1524	10.1949615	15666,121	20	40	8292,337	9.9186769	2571
41	6385,440	9.8051908	1523	10.1948092	15660,628	19	41	8297,247	9.9189340	2571
42	6387,678	9.8053430	1522	10.1946570	15655,141	18	42	8302,160	9.9191911	2571
43	6389,916	9.8054951	1521	10.1945049	15649,658	17	43	8307,075	9.9194481	2570
44	6392,153	9.8056472	1521	10.1943528	15644,181	16	44	8311,992	9.9197051	2570
45	6394,390	9.8057991	1519	10.1942009	15638,708	15	45	8316,912	9.9199621	2570
46	6396,626	9.8059510	1519	10.1940490	15633,241	14	46	8321,834	9.9202191	2569
47	6398,862	9.8061027	1517	10.1938973	15627,779	13	47	8326,755	9.9204760	2569
48	6401,097	9.8062544	1517	10.1937456	15622,322	12	48	8331,686	9.9207329	2569
49	6403,332	9.8064060	1516	10.1935940	15616,871	11	49	8336,615	9.9209898	2569
50	6405,566	9.8065575	1515	10.1934425	15611,424	10	50	8341,547	9.9212466	2568
51	6407,799	9.8067089	1514	10.1932911	15605,982	9	51	8346,481	9.9215034	2568
52	6410,032	9.8068602	1513	10.1931398	15600,546	8	52	8351,415	9.9217602	2568
53	6412,264	9.8070114	1512	10.1929886	15595,115	7	53	8356,357	9.9220170	2567
54	6414,496	9.8071626	1512	10.1928374	15589,689	6	54	8361,298	9.9222737	2567
55	6416,728	9.8073136	1510	10.1926864	15584,268	5	55	8366,242	9.9225304	2567
56	6418,958	9.8074646	1510	10.1925354	15578,852	4	56	8371,188	9.9227871	2566
57	6421,189	9.8076154	1508	10.1923846	15573,441	3	57	8376,136	9.9230437	2567
58	6423,418	9.8077662	1508	10.1922338	15568,035	2	58	8381,087	9.9233004	2566
59	6425,647	9.8079169	1507	10.1920831	15562,634	1	59	8386,041	9.9235570	2566
60	6427,876	9.8080675	1506	10.1919325	15557,238	0	60	8390,999	9.9238135	2565
Co-fines			Diff	L. Sec.	N. Sec.	M	Co-tangents			Diff

# 50 Degrees

# 39 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	Diff	Co-fines		
	10.0916308	12348.972					9.8905026	7771.466	
2583	10.0913725	12341.629	59	1	12870.628	10.1094974	1023	9.8904003	7769.625
2583	10.0911142	12334.292	58	2	12873.663	10.1097021	1024	9.8902979	7767.797
2582	10.0908566	12326.951	57	3	12876.700	10.1098047	1025	9.8901954	7765.965
2582	10.0905978	12319.634	56	4	12879.740	10.1099071	1025	9.8900929	7764.132
2581	10.0903397	12312.313	55	5	12882.782	10.1100097	1026	9.8899903	7762.298
2582	10.0900815	12304.997	54	6	12885.827	10.1101123	1026	9.8898877	7760.464
2581	10.0898234	12297.687	53	7	12888.875	10.1102150	1027	9.8897850	7758.629
2581	10.0895653	12290.381	52	8	12891.925	10.1103178	1028	9.8896822	7756.794
258	10.0893073	12283.081	51	9	12894.977	10.1104206	1028	9.8895794	7754.957
2580	10.0890493	12275.786	50	10	12898.032	10.1105235	1029	9.8894765	7753.121
2580	10.0887913	12268.496	49	11	12901.090	10.1106264	1029	9.8893736	7751.283
2579	10.0885334	12261.211	48	12	12904.150	10.1107292	1030	9.8892706	7749.445
2579	10.0882755	12253.932	47	13	12907.213	10.1108325	1031	9.8891675	7747.606
2579	10.0880176	12246.658	46	14	12910.278	10.1109358	1031	9.8890644	7745.767
2579	10.0877597	12239.389	45	15	12913.346	10.1110388	1032	9.8889612	7743.926
2578	10.0875019	12232.125	44	16	12916.416	10.1111420	1032	9.8888580	7742.086
2578	10.0872441	12224.866	43	17	12919.489	10.1112453	1033	9.8887547	7740.244
2578	10.0869863	12217.613	42	18	12922.564	10.1113487	1034	9.8886513	7738.402
2577	10.0867286	12210.364	41	19	12925.642	10.1114521	1034	9.8885479	7736.559
2577	10.0864709	12203.121	40	20	12928.723	10.1115556	1035	9.8884444	7734.716
2577	10.0862132	12195.883	39	21	12931.806	10.1116592	1036	9.8883408	7732.872
2576	10.0859556	12188.650	38	22	12934.892	10.1117628	1036	9.8882372	7731.027
2576	10.0856980	12181.422	37	23	12937.980	10.1118665	1037	9.8881335	7729.182
2576	10.0854404	12174.199	36	24	12941.071	10.1119702	1037	9.8880298	7727.336
2575	10.0851829	12166.982	35	25	12944.164	10.1120740	1038	9.8879260	7725.489
2576	10.0849253	12159.769	34	26	12947.260	10.1121779	1039	9.8878221	7723.642
2575	10.0846678	12152.562	33	27	12950.359	10.1122818	1039	9.8877182	7721.794
2574	10.0844104	12145.359	32	28	12953.460	10.1123858	1040	9.8876142	7719.945
2575	10.0841529	12138.162	31	29	12956.564	10.1124898	1040	9.8875102	7718.096
2574	10.0838955	12130.970	30	30	12959.670	10.1125939	1041	9.8874061	7716.246
2573	10.0836382	12123.783	29	31	12962.779	10.1126981	1042	9.8873019	7714.395
2574	10.0833808	12116.601	28	32	12965.890	10.1128023	1042	9.8871977	7712.544
2573	10.0831235	12109.424	27	33	12969.004	10.1129066	1043	9.8870934	7710.692
2573	10.0828662	12102.252	26	34	12972.121	10.1130110	1044	9.8869890	7708.840
2573	10.0826089	12095.085	25	35	12975.240	10.1131154	1044	9.8868846	7706.986
2572	10.0823517	12087.924	24	36	12978.362	10.1132195	1045	9.8867801	7705.132
2572	10.0820945	12080.767	23	37	12981.487	10.1133244	1045	9.8866756	7703.278
2572	10.0818373	12073.615	22	38	12984.614	10.1134290	1046	9.8865710	7701.423
2571	10.0815802	12066.468	21	39	12987.743	10.1135337	1047	9.8864663	7699.567
2571	10.0813231	12059.327	20	40	12990.876	10.1136384	1047	9.8863616	7697.712
2571	10.0810660	12052.190	19	41	12994.011	10.1137432	1048	9.8862568	7695.853
2571	10.0808089	12045.058	18	42	12997.148	10.1138481	1049	9.8861519	7693.996
2570	10.0805519	12037.932	17	43	13000.288	10.1139530	1049	9.8860470	7692.137
2570	10.0802949	12030.810	16	44	13003.431	10.1140580	1050	9.8859420	7690.278
2570	10.0800379	12023.693	15	45	13006.576	10.1141630	1050	9.8858370	7688.418
2570	10.0797809	12016.581	14	46	13009.724	10.1142681	1051	9.8857315	7686.558
2569	10.0795240	12009.475	13	47	13012.875	10.1143733	1052	9.8856267	7684.697
2569	10.0792671	12002.373	12	48	13016.028	10.1144785	1052	9.8855215	7682.835
2569	10.0790102	11995.276	11	49	13019.184	10.1145838	1053	9.8854162	7680.973
2568	10.0787534	11988.184	10	50	13022.343	10.1146891	1053	9.8853109	7679.111
2568	10.0784966	11981.097	9	51	13025.504	10.1147945	1054	9.8852055	7677.246
2568	10.0782398	11974.015	8	52	13028.667	10.1149000	1055	9.8851000	7675.382
2568	10.0779830	11966.938	7	53	13031.834	10.1150055	1055	9.8849945	7673.517
2567	10.0777263	11959.866	6	54	13035.003	10.1151111	1056	9.8848889	7671.652
2567	10.0774696	11952.799	5	55	13038.175	10.1152168	1057	9.8847832	7669.785
2567	10.0772129	11945.736	4	56	13041.349	10.1153225	1057	9.8846775	7667.918
2566	10.0769563	11938.679	3	57	13044.526	10.1154283	1058	9.8845717	7666.051
2567	10.0766996	11931.626	2	58	13047.706	10.1155341	1058	9.8844655	7664.183
2566	10.0764433	11924.579	1	59	13050.888	10.1156400	1060	9.8843599	7662.314
2565	10.0761865	11917.536	0	60	13054.073	10.1157460	1059	9.8842540	7660.444
Diff	L. Tang. N. Tan. M.			Co-secants		Diff	L. Sine N. Sine M.		

50 Degrees

Mm

# 40 Degrees

N.	Sine	L. Sine	Diff	Co-secants			M.	N. Tan.	L. Tan.	Diff
0	6427,876	9.8080675	—	10.1919325	15557,238	50	0	8390,996	9.9238135	2560
1	6430,104	9.8082180	1505	10.1917820	15551,848	59	1	8395,955	9.9240701	2561
2	6432,332	9.8083684	1504	10.1916316	15546,462	58	2	8400,915	9.9243266	2562
3	6434,555	9.8085188	1504	10.1914812	15541,081	57	3	8405,878	9.9245831	2563
4	6436,781	9.8086690	1502	10.1913310	15535,706	56	4	8410,844	9.9248396	2564
5	6439,015	9.8088192	1502	10.1911808	15530,335	55	5	8415,812	9.9250960	2564
6	6441,236	9.8089692	1500	10.1910308	15524,970	54	6	8420,782	9.9253524	2564
7	6443,461	9.8091192	1500	10.1908808	15519,610	53	7	8425,755	9.9256088	2564
8	6445,685	9.8092691	1499	10.1907309	15514,254	52	8	8430,730	9.9258652	2564
9	6447,909	9.8094189	1498	10.1905811	15508,904	51	9	8435,708	9.9261215	2563
10	6450,132	9.8095686	1497	10.1904314	15503,558	50	10	8440,688	9.9263778	2563
11	6452,355	9.8097182	1496	10.1902818	15498,218	49	11	8445,670	9.9266341	2563
12	6454,577	9.8098678	1496	10.1901322	15492,882	48	12	8450,655	9.9268904	2562
13	6456,798	9.8100172	1494	10.1899828	15487,552	47	13	8455,643	9.9271466	2562
14	6459,019	9.8101666	1494	10.1898334	15482,226	46	14	8460,633	9.9274028	2562
15	6461,240	9.8103159	1493	10.1896841	15476,906	45	15	8465,623	9.9276590	2561
16	6463,460	9.8104650	1491	10.1895350	15471,590	44	16	8470,620	9.9279152	2561
17	6465,679	9.8106141	1491	10.1893859	15466,280	43	17	8475,617	9.9281713	2561
18	6467,898	9.8107631	1490	10.1892369	15460,974	42	18	8480,617	9.9284274	2561
19	6470,116	9.8109121	1490	10.1890879	15455,673	41	19	8485,619	9.9286835	2561
20	6472,334	9.8110609	1488	10.1889391	15450,378	40	20	8490,624	9.9289396	2560
21	6474,551	9.8112096	1487	10.1887904	15445,087	39	21	8495,631	9.9291956	2560
22	6476,767	9.8113583	1487	10.1886417	15439,801	38	22	8500,640	9.9294516	2560
23	6478,984	9.8115069	1486	10.1884931	15434,520	37	23	8505,653	9.9297076	2560
24	6481,199	9.8116554	1485	10.1883446	15429,244	36	24	8510,667	9.9299636	2560
25	6483,414	9.8118038	1484	10.1881962	15423,973	35	25	8515,684	9.9302195	2559
26	6485,628	9.8119521	1483	10.1880479	15418,706	34	26	8520,704	9.9304755	2559
27	6487,842	9.8121003	1482	10.1878997	15413,445	33	27	8525,726	9.9307314	2558
28	6490,056	9.8122484	1481	10.1877516	15408,189	32	28	8530,750	9.9309872	2558
29	6492,268	9.8123965	1481	10.1876035	15402,937	31	29	8535,777	9.9312431	2558
30	6494,480	9.8125444	1479	10.1874556	15397,690	30	30	8540,807	9.9314989	2558
31	6496,692	9.8126923	1479	10.1873077	15392,449	29	31	8545,839	9.9317547	2558
32	6498,903	9.8128401	1478	10.1871599	15387,212	28	32	8550,873	9.9320105	2558
33	6501,114	9.8129878	1477	10.1870122	15381,980	27	33	8555,910	9.9322662	2558
34	6503,324	9.8131354	1476	10.1868646	15376,752	26	34	8560,950	9.9325220	2557
35	6505,533	9.8132829	1475	10.1867171	15371,530	25	35	8565,992	9.9327777	2557
36	6507,742	9.8134303	1474	10.1865697	15366,313	24	36	8571,037	9.9330334	2556
37	6509,951	9.8135777	1474	10.1864223	15361,100	23	37	8576,084	9.9332890	2556
38	6512,158	9.8137250	1473	10.1862750	15355,892	22	38	8581,133	9.9335446	2556
39	6514,366	9.8138721	1471	10.1861279	15350,689	21	39	8586,185	9.9338003	2556
40	6516,572	9.8140192	1471	10.1859808	15345,491	20	40	8591,240	9.9340559	2555
41	6518,778	9.8141662	1470	10.1858338	15340,297	19	41	8596,297	9.9343114	2556
42	6520,984	9.8143131	1469	10.1856869	15335,109	18	42	8601,357	9.9345670	2555
43	6523,189	9.8144600	1469	10.1855400	15329,925	17	43	8606,419	9.9348225	2555
44	6525,394	9.8146067	1467	10.1853933	15324,746	16	44	8611,484	9.9350780	2555
45	6527,598	9.8147534	1467	10.1852466	15319,572	15	45	8616,551	9.9353335	2554
46	6529,801	9.8148999	1465	10.1851001	15314,403	14	46	8621,621	9.9355890	2555
47	6532,004	9.8150464	1465	10.1849536	15309,238	13	47	8626,694	9.9358444	2554
48	6534,206	9.8151928	1464	10.1848072	15304,078	12	48	8631,768	9.9360999	2554
49	6536,408	9.8153391	1463	10.1846609	15298,923	11	49	8636,846	9.9363552	2553
50	6538,609	9.8154854	1463	10.1845146	15293,773	10	50	8641,926	9.9366105	2554
51	6540,810	9.8156315	1461	10.1843685	15288,627	9	51	8647,009	9.9368658	2553
52	6543,010	9.8157776	1461	10.1842224	15283,487	8	52	8652,094	9.9371212	2553
53	6545,209	9.8159235	1459	10.1840765	15278,351	7	53	8657,181	9.9373765	2553
54	6547,408	9.8160694	1459	10.1839306	15273,219	6	54	8662,272	9.9376318	2553
55	6549,607	9.8162152	1458	10.1837848	15268,093	5	55	8667,365	9.9378871	2552
56	6551,804	9.8163609	1457	10.1836391	15262,971	4	56	8672,460	9.9381423	2552
57	6554,002	9.8165066	1457	10.1834934	15257,854	3	57	8677,558	9.9383975	2552
58	6556,198	9.8166521	1455	10.1833479	15252,741	2	58	8682,655	9.9386527	2552
59	6558,395	9.8167975	1454	10.1832025	15247,634	1	59	8687,762	9.9389079	2552
60	6560,590	9.8169429	1454	10.1830571	15242,531	0	60	8692,867	9.9391631	2552
Co-fines			Diff	L. Sec. N. Sec. M			Co-tangents			Diff

# 49 Degrees

# 40 Degrees

Diff.	Co-tangents			M	N. Sec.	L. Sec.	Diff.	Co-fines			M
	10.0761865	11917,536	60	C	13034,073	10.1157460		9.8842540	7660,444	60	
2566	10.0759299	11910,498	59	1	13057,261	10.1158521	1061	9.8841479	7658,574	59	
2565	10.0756731	11903,463	58	2	13080,451	10.1159582	1061	9.8840418	7656,704	58	
2565	10.0754169	11896,437	57	3	13106,644	10.1160643	1061	9.8839357	7654,832	57	
2565	10.0751604	11889,414	56	4	13136,839	10.1161706	1063	9.8838294	7652,960	56	
2564	10.0749040	11882,395	55	5	13170,038	10.1162768	1063	9.8837232	7651,087	55	
2564	10.0746476	11875,378	54	6	13207,239	10.1163832	1064	9.8836168	7649,214	54	
2564	10.0743912	11868,373	53	7	13247,442	10.1164896	1064	9.8835104	7647,340	53	
2564	10.0741348	11861,365	52	8	13290,649	10.1165961	1065	9.8834039	7645,465	52	
2563	10.0738785	11854,370	51	9	13337,858	10.1167026	1065	9.8832974	7643,590	51	
2563	10.0736222	11847,376	50	10	13389,069	10.1168092	1066	9.8831908	7641,714	50	
2563	10.0733659	11840,387	49	11	13444,284	10.1169159	1067	9.8830841	7639,838	49	
2563	10.0731096	11833,402	48	12	13502,501	10.1170226	1067	9.8829774	7637,960	48	
2562	10.0728534	11826,422	47	13	13563,720	10.1171294	1068	9.8828706	7636,082	47	
2562	10.0725972	11819,447	46	14	13628,943	10.1172362	1068	9.8827638	7634,204	46	
2562	10.0723410	11812,477	45	15	13702,168	10.1173432	1070	9.8826568	7632,325	45	
2562	10.0720848	11805,512	44	16	13771,396	10.1174501	1069	9.8825499	7630,445	44	
2561	10.0718287	11798,551	43	17	13848,626	10.1175572	1071	9.8824428	7628,564	43	
2561	10.0715726	11791,595	42	18	13929,860	10.1176643	1071	9.8823357	7626,683	42	
2561	10.0713165	11784,644	41	19	14015,095	10.1177715	1072	9.8822285	7624,802	41	
2561	10.0710604	11777,698	40	20	14104,334	10.1178787	1072	9.8821213	7622,920	40	
2560	10.0708044	11770,756	39	21	14197,575	10.1179860	1073	9.8820140	7621,036	39	
2560	10.0705484	11763,820	38	22	14294,820	10.1180933	1073	9.8819067	7619,152	38	
2560	10.0702924	11756,888	37	23	14396,066	10.1182008	1075	9.8817992	7617,268	37	
2560	10.0700364	11749,960	36	24	14501,316	10.1183082	1074	9.8816918	7615,383	36	
2559	10.0697805	11743,038	35	25	14610,568	10.1184158	1076	9.8815842	7613,497	35	
2559	10.0695245	11736,120	34	26	14723,823	10.1185234	1076	9.8814766	7611,611	34	
2559	10.0692686	11729,207	33	27	14841,081	10.1186311	1077	9.8813685	7609,724	33	
2558	10.0690128	11722,298	32	28	14963,341	10.1187388	1077	9.8812612	7607,837	32	
2558	10.0687569	11715,395	31	29	15090,604	10.1188466	1078	9.8811534	7605,949	31	
2558	10.0685011	11708,496	30	30	15222,870	10.1189545	1079	9.8810455	7604,060	30	
2558	10.0682453	11701,601	29	31	15364,139	10.1190624	1079	9.8809376	7602,170	29	
2558	10.0679895	11694,712	28	32	15502,410	10.1191704	1080	9.8808296	7600,280	28	
2557	10.0677338	11687,827	27	33	15649,684	10.1192785	1081	9.8807215	7598,389	27	
2557	10.0674780	11680,947	26	34	15801,961	10.1193866	1081	9.8806134	7596,498	26	
2557	10.0672223	11674,071	25	35	15959,240	10.1194948	1082	9.8805052	7594,606	25	
2557	10.0669666	11667,200	24	36	16121,523	10.1196030	1082	9.8803970	7592,713	24	
2556	10.0667110	11660,332	23	37	16289,808	10.1197113	1083	9.8802887	7590,820	23	
2556	10.0664554	11653,472	22	38	16464,096	10.1198197	1084	9.8801803	7588,926	22	
2557	10.0661997	11646,615	21	39	16645,386	10.1199281	1084	9.8800719	7587,031	21	
2556	10.0659441	11639,763	20	40	16833,680	10.1200366	1085	9.8799634	7585,136	20	
2555	10.0656886	11632,916	19	41	17028,976	10.1201452	1086	9.8798548	7583,240	19	
2555	10.0654330	11626,073	18	42	17231,274	10.1202538	1086	9.8797462	7581,343	18	
2555	10.0651775	11619,234	17	43	17440,576	10.1203625	1087	9.8796375	7579,446	17	
2555	10.0649220	11612,400	16	44	17656,881	10.1204713	1088	9.8795287	7577,548	16	
2555	10.0646665	11605,571	15	45	17880,188	10.1205801	1089	9.8794199	7575,650	15	
2554	10.0644111	11598,747	14	46	18111,498	10.1206890	1089	9.8793110	7573,751	14	
2555	10.0641556	11591,927	13	47	18350,810	10.1207979	1089	9.8792021	7571,851	13	
2554	10.0639002	11585,112	12	48	18598,126	10.1209070	1091	9.8790930	7569,951	12	
2554	10.0636448	11578,301	11	49	18854,444	10.1210160	1090	9.8789840	7568,050	11	
2553	10.0633895	11571,495	10	50	19119,765	10.1211252	1092	9.8788748	7566,148	10	
2554	10.0631341	11564,693	9	51	19394,089	10.1212344	1091	9.8787656	7564,246	9	
2553	10.0628788	11557,896	8	52	19678,416	10.1213437	1093	9.8786563	7562,343	8	
2553	10.0626235	11551,104	7	53	19972,745	10.1214530	1093	9.8785470	7560,439	7	
2553	10.0623682	11544,316	6	54	20277,078	10.1215624	1094	9.8784376	7558,535	6	
2553	10.0621129	11537,532	5	55	20592,413	10.1216719	1095	9.8783281	7556,630	5	
2552	10.0618577	11530,754	4	56	20918,750	10.1217814	1095	9.8782186	7554,724	4	
2552	10.0616023	11523,979	3	57	21256,091	10.1218910	1096	9.8781090	7552,818	3	
2552	10.0613473	11517,210	2	58	21604,435	10.1220006	1096	9.8779994	7550,911	2	
2552	10.0610921	11510,445	1	59	21963,781	10.1221104	1098	9.8778896	7549,004	1	
2552	10.0608369	11503,684	0	60	22334,130	10.1222201	1097	9.8777799	7547,096	0	
Diff	L. Tang	N. Tan.	M	Co-secants			Diff	L. Sine	N. Sine	M	

## 49 Degrees

Mm2

## 41 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants		M. N. Tan.	L. Tan.	Diff.
0 5560 590	9.8169429		10.1830571	15242,531	0 8692,867	9.9391611	
1 6562,785	9.8170882	1453	10.1829118	15237,433	1 8697,976	9.9394182	2551
2 6564,980	9.8172334	1452	10.1827666	15232,339	2 8703,087	9.9396733	2551
3 6567,174	9.8173785	1451	10.1826215	15227,250	3 8708,206	9.9399284	2551
4 6569,367	9.8175235	1450	10.1824765	15222,166	4 8713,316	9.9401835	2550
5 6571,560	9.8176685	1449	10.1823315	15217,087	5 8718,435	9.9404385	2551
6 6573,752	9.8178133	1448	10.1821867	15212,012	6 8723,556	9.9406936	2550
7 6575,944	9.8179581	1447	10.1820419	15206,942	7 8728,680	9.9409486	2550
8 6578,135	9.8181028	1446	10.1818972	15201,870	8 8733,806	9.9412036	2549
9 6580,326	9.8182474	1445	10.1817526	15196,815	9 8738,935	9.9414585	2549
10 6582,516	9.8183919	1444	10.1816081	15191,759	10 8744,067	9.9417135	2549
11 6584,706	9.8185364	1443	10.1814636	15186,708	11 8749,201	9.9419684	2548
12 6586,895	9.8186807	1443	10.1813193	15181,661	12 8754,338	9.9422233	2548
13 6589,083	9.8188250	1442	10.1811750	15176,619	13 8759,478	9.9424782	2547
14 6591,271	9.8189692	1441	10.1810308	15171,581	14 8764,620	9.9427331	2547
15 6593,458	9.8191133	1440	10.1808867	15166,548	15 8769,765	9.9429879	2546
16 6595,645	9.8192573	1439	10.1807427	15161,520	16 8774,912	9.9432428	2546
17 6597,831	9.8194012	1438	10.1805988	15156,496	17 8780,062	9.9434976	2545
18 6600,017	9.8195450	1438	10.1804550	15151,477	18 8785,215	9.9437524	2545
19 6602,202	9.8196888	1437	10.1803112	15146,462	19 8790,370	9.9440072	2544
20 6604,386	9.8198325	1436	10.1801675	15141,452	20 8795,528	9.9442619	2544
21 6606,570	9.8199761	1435	10.1800239	15136,447	21 8800,688	9.9445166	2543
22 6608,754	9.8201196	1434	10.1798804	15131,446	22 8805,852	9.9447714	2543
23 6610,936	9.8202630	1433	10.1797370	15126,450	23 8811,017	9.9450261	2542
24 6613,119	9.8204063	1433	10.1795937	15121,459	24 8816,186	9.9452807	2542
25 6615,300	9.8205496	1431	10.1794504	15116,472	25 8821,357	9.9455354	2541
26 6617,482	9.8206927	1431	10.1793073	15111,489	26 8826,531	9.9457900	2541
27 6619,662	9.8208358	1430	10.1791642	15106,511	27 8831,707	9.9460447	2540
28 6621,842	9.8209788	1429	10.1790212	15101,538	28 8836,886	9.9462993	2540
29 6624,022	9.8211217	1429	10.1788783	15096,569	29 8842,068	9.9465539	2539
30 6626,200	9.8212646	1427	10.1787354	15091,605	30 8847,253	9.9468084	2539
31 6628,379	9.8214073	1427	10.1785927	15086,645	31 8852,440	9.9470630	2538
32 6630,557	9.8215500	1426	10.1784500	15081,690	32 8857,630	9.9473175	2538
33 6632,734	9.8216926	1425	10.1783074	15076,739	33 8862,822	9.9475720	2537
34 6634,910	9.8218351	1424	10.1781649	15071,793	34 8868,017	9.9478265	2537
35 6637,087	9.8219775	1423	10.1780225	15066,852	35 8873,215	9.9480810	2536
36 6639,262	9.8221198	1423	10.1778802	15061,915	36 8878,415	9.9483355	2536
37 6641,437	9.8222621	1421	10.1777379	15056,982	37 8883,619	9.9485899	2535
38 6643,612	9.8224042	1421	10.1775958	15052,054	38 8888,825	9.9488443	2535
39 6645,785	9.8225463	1420	10.1774537	15047,131	39 8894,033	9.9490987	2534
40 6647,959	9.8226883	1419	10.1773117	15042,211	40 8899,244	9.9493531	2534
41 6650,131	9.8228302	1419	10.1771698	15037,297	41 8904,458	9.9496075	2533
42 6652,304	9.8229721	1417	10.1770279	15032,387	42 8909,675	9.9498619	2533
43 6654,475	9.8231138	1417	10.1768862	15027,481	43 8914,894	9.9501162	2533
44 6656,646	9.8232555	1416	10.1767445	15022,580	44 8920,116	9.9503705	2532
45 6658,817	9.8233971	1415	10.1766029	15017,683	45 8925,341	9.9506248	2532
46 6660,987	9.8235386	1414	10.1764614	15012,791	46 8930,569	9.9508791	2531
47 6663,156	9.8236800	1413	10.1763200	15007,903	47 8935,799	9.9511334	2531
48 6665,325	9.8238213	1413	10.1761787	15003,020	48 8941,032	9.9513876	2530
49 6667,493	9.8239626	1411	10.1760374	14998,141	49 8946,268	9.9516419	2530
50 6669,661	9.8241037	1411	10.1758963	14993,267	50 8951,506	9.9518961	2529
51 6671,828	9.8242448	1410	10.1757552	14988,397	51 8956,747	9.9521503	2529
52 6673,994	9.8243858	1409	10.1756142	14983,531	52 8961,991	9.9524045	2528
53 6676,160	9.8245267	1409	10.1754733	14978,670	53 8967,238	9.9526587	2528
54 6678,326	9.8246676	1407	10.1753324	14973,813	54 8972,487	9.9529128	2527
55 6680,490	9.8248083	1407	10.1751917	14968,961	55 8977,739	9.9531670	2527
56 6682,655	9.8249490	1406	10.1750510	14964,113	56 8982,994	9.9534211	2526
57 6684,818	9.8250896	1405	10.1749104	14959,270	57 8988,251	9.9536754	2526
58 6686,981	9.8252301	1404	10.1747699	14954,431	58 8993,512	9.9539295	2525
59 6689,144	9.8253705	1404	10.1746295	14949,596	59 8998,775	9.9541838	2525
60 6691,306	9.8255109	1403	10.1744891	14944,765	60 9004,040	9.9544374	2524
Co-lines		Diff.	L. Sec. N. Sec. M.		Co-tangents		Diff.

## 48 Degrees

# 41 Degrees

Diff	Co-tangents			M	N. Sec.	L. Sec.	Diff	Co-lines			
2551	10.0608369	11503,684	60	0	13250,130	10.1222201		9.8777799	7547,096	60	
2551	10.0605818	11496,928	59	1	13253,482	10.1223300	1099	9.8776700	7545,187	59	
2551	10.0603267	11490,176	58	2	13256,837	10.1224399	1099	9.8775601	7543,278	58	
2551	10.0600716	11483,429	57	3	13260,194	10.1225499	1100	9.8774501	7541,368	57	
2550	10.0598165	11476,687	56	4	13263,554	10.1226599	1100	9.8773401	7539,457	56	
2551	10.0595615	11469,945	55	5	13266,918	10.1227700	1101	9.8772300	7537,546	55	
2551	10.0593064	11463,215	54	6	13270,284	10.1228802	1102	9.8771198	7535,634	54	
2550	10.0590514	11456,486	53	7	13273,653	10.1229904	1102	9.8770096	7533,721	53	
2550	10.0587964	11449,762	52	8	13277,024	10.1231007	1103	9.8768993	7531,808	52	
2549	10.0585415	11443,041	51	9	13280,399	10.1232111	1104	9.8767889	7529,894	51	
2549	10.0582865	11436,326	50	10	13283,776	10.1233215	1104	9.8766785	7527,980	50	
2549	10.0580316	11429,615	49	11	13287,156	10.1234320	1105	9.8765680	7526,065	49	
2549	10.0577767	11422,908	48	12	13290,539	10.1235426	1106	9.8764574	7524,149	48	
2549	10.0575218	11416,206	47	13	13293,925	10.1236532	1106	9.8763468	7522,233	47	
2549	10.0572669	11409,508	46	14	13297,314	10.1237639	1107	9.8762361	7520,316	46	
2548	10.0570121	11402,815	45	15	13300,706	10.1238747	1108	9.8761253	7518,398	45	
2549	10.0567572	11396,126	44	16	13304,100	10.1239855	1108	9.8760145	7516,480	44	
2548	10.0565024	11389,441	43	17	13307,497	10.1240964	1109	9.8759036	7514,561	43	
2548	10.0562476	11382,761	42	18	13310,897	10.1242073	1109	9.8757927	7512,641	42	
2548	10.0559928	11376,086	41	19	13314,301	10.1243184	1111	9.8756818	7510,721	41	
2547	10.0557381	11369,414	40	20	13317,707	10.1244294	1110	9.8755706	7508,800	40	
2547	10.0554834	11362,747	39	21	13321,115	10.1245406	1112	9.8754594	7506,879	39	
2548	10.0552286	11356,085	38	22	13324,527	10.1246518	1112	9.8753482	7504,957	38	
2547	10.0549739	11349,427	37	23	13327,942	10.1247631	1113	9.8752369	7503,034	37	
2546	10.0547193	11342,773	36	24	13331,359	10.1248744	1113	9.8751256	7501,111	36	
2547	10.0544646	11336,124	35	25	13334,779	10.1249858	1114	9.8750142	7499,187	35	
2546	10.0542100	11329,479	34	26	13338,203	10.1250973	1115	9.8749027	7497,262	34	
2547	10.0539553	11322,839	33	27	13341,629	10.1252088	1115	9.8747912	7495,337	33	
2546	10.0537007	11316,203	32	28	13345,058	10.1253205	1117	9.8746795	7493,411	32	
2546	10.0534461	11309,571	31	29	13348,489	10.1254321	1116	9.8745679	7491,484	31	
2545	10.0531916	11302,944	30	30	13351,924	10.1255439	1118	9.8744561	7489,557	30	
2546	10.0529370	11296,321	29	31	13355,362	10.1256557	1118	9.8743443	7487,629	29	
2545	10.0526825	11289,702	28	32	13358,802	10.1257675	1118	9.8742325	7485,701	28	
2545	10.0524280	11283,088	27	33	13362,246	10.1258795	1120	9.8741205	7483,772	27	
2545	10.0521735	11276,478	26	34	13365,692	10.1259915	1120	9.8740085	7481,842	26	
2545	10.0519190	11269,872	25	35	13369,141	10.1261035	1121	9.8738965	7479,912	25	
2545	10.0516645	11263,271	24	36	13372,594	10.1262156	1121	9.8737844	7477,981	24	
2544	10.0514101	11256,674	23	37	13376,049	10.1263278	1122	9.8736722	7476,049	23	
2544	10.0511557	11250,081	22	38	13379,507	10.1264401	1123	9.8735600	7474,117	22	
2544	10.0509013	11243,493	21	39	13382,968	10.1265524	1123	9.8734476	7472,184	21	
2544	10.0506469	11236,909	20	40	13386,432	10.1266648	1124	9.8733352	7470,251	20	
2544	10.0503925	11230,329	19	41	13389,898	10.1267773	1125	9.8732227	7468,317	19	
2544	10.0501381	11223,754	18	42	13393,368	10.1268898	1125	9.8731102	7466,382	18	
2543	10.0498838	11217,183	17	43	13396,841	10.1270024	1126	9.8729976	7464,446	17	
2543	10.0496295	11210,616	16	44	13400,316	10.1271151	1127	9.8728849	7462,510	16	
2543	10.0493752	11204,053	15	45	13403,795	10.1272278	1127	9.8727722	7460,574	15	
2543	10.0491209	11197,495	14	46	13407,276	10.1273406	1128	9.8726594	7458,636	14	
2543	10.0488666	11190,941	13	47	13410,761	10.1274534	1128	9.8725466	7456,699	13	
2542	10.0486124	11184,391	12	48	13414,248	10.1275663	1129	9.8724337	7454,760	12	
2543	10.0483581	11177,846	11	49	13417,738	10.1276793	1130	9.8723207	7452,821	11	
2542	10.0481039	11171,303	10	50	13421,232	10.1277924	1131	9.8722076	7450,881	10	
2542	10.0478497	11164,768	9	51	13424,728	10.1279055	1131	9.8720945	7448,941	9	
2542	10.0475955	11158,235	8	52	13428,227	10.1280187	1132	9.8719813	7446,999	8	
2541	10.0473413	11151,706	7	53	13431,729	10.1281319	1132	9.8718681	7445,058	7	
2541	10.0470872	11145,182	6	54	13435,234	10.1282452	1133	9.8717548	7443,115	6	
2541	10.0468330	11138,662	5	55	13438,742	10.1283586	1134	9.8716414	7441,173	5	
2541	10.0465789	11132,146	4	56	13442,253	10.1284721	1135	9.8715279	7439,229	4	
2541	10.0463248	11125,635	3	57	13445,767	10.1285856	1135	9.8714144	7437,285	3	
2541	10.0460707	11119,127	2	58	13449,284	10.1286992	1136	9.8713008	7435,340	2	
2541	10.0458166	11112,624	1	59	13452,804	10.1288128	1137	9.8711872	7433,394	1	
2540	10.0455626	11106,125	0	60	13456,327	10.1289265	1137	9.8710735	7431,448	0	
Diff	L. Tang. N. Tan. M				Co-secants			Diff	L. Sine N. Sine M		

# 48 Degrees

# 42 Degrees

M. N. Sine	L. Sine	Diff	Co-secants		M. N. Tan.	L. Tan.	Diff
0 6691,306	9.8255109	1403	10.1744891	14944,765	0 0004,040	9.9544374	2541
1 6693,468	9.8256512	1401	10.1743488	14939,940	1 0009,309	9.9546915	2540
2 6695,628	9.8257913	1401	10.1742087	14935,118	2 0014,580	9.9549455	2540
3 6697,789	9.8259314	1401	10.1740686	14930,301	3 0019,854	9.9551995	2540
4 6699,948	9.8260715	1399	10.1739285	14925,488	4 0025,131	9.9554535	2540
5 6702,108	9.8262114	1398	10.1737886	14920,680	5 0030,411	9.9557075	2540
6 6704,266	9.8263512	1398	10.1736488	14915,876	6 0035,693	9.9559615	2540
7 6706,424	9.8264910	1397	10.1735090	14911,076	7 0040,979	9.9562154	2539
8 6708,582	9.8266307	1396	10.1733693	14906,280	8 0046,267	9.9564694	2540
9 6710,739	9.8267703	1395	10.1732297	14901,485	9 0051,557	9.9567233	2535
10 6712,895	9.8269098	1395	10.1730902	14896,703	10 0056,851	9.9569772	2535
11 6715,051	9.8270493	1394	10.1729507	14891,920	11 0062,147	9.9572311	2539
12 6717,206	9.8271887	1392	10.1728113	14887,142	12 0067,446	9.9574850	2539
13 6719,361	9.8273279	1392	10.1726721	14882,365	13 0072,748	9.9577389	2535
14 6721,515	9.8274671	1392	10.1725329	14877,599	14 0078,053	9.9579927	2538
15 6723,668	9.8276063	1390	10.1723937	14872,834	15 0083,360	9.9582465	2538
16 6725,821	9.8277453	1390	10.1722547	14868,073	16 0088,671	9.9585004	2539
17 6727,973	9.8278843	1388	10.1721157	14863,317	17 0093,984	9.9587542	2538
18 6730,125	9.8280231	1388	10.1719769	14858,565	18 0099,300	9.9590080	2538
19 6732,276	9.8281619	1387	10.1718381	14853,817	19 0104,619	9.9592618	2538
20 6734,427	9.8283006	1387	10.1716994	14849,073	20 0109,940	9.9595155	2537
21 6736,577	9.8284393	1385	10.1715607	14844,334	21 0115,265	9.9597693	2538
22 6738,727	9.8285778	1385	10.1714222	14839,599	22 0120,592	9.9600230	2537
23 6740,876	9.8287163	1384	10.1712837	14834,868	23 0125,922	9.9602767	2537
24 6743,024	9.8288547	1383	10.1711453	14830,142	24 0131,255	9.9605305	2538
25 6745,172	9.8289930	1382	10.1710070	14825,420	25 0136,591	9.9607842	2537
26 6747,319	9.8291312	1382	10.1708688	14820,702	26 0141,929	9.9610378	2536
27 6749,467	9.8292694	1381	10.1707306	14815,988	27 0147,270	9.9612915	2537
28 6751,612	9.8294075	1379	10.1705925	14811,278	28 0152,615	9.9615452	2537
29 6753,757	9.8295454	1379	10.1704546	14806,573	29 0157,962	9.9617988	2536
30 6755,900	9.8296833	1379	10.1703167	14801,872	30 0163,312	9.9620525	2537
31 6758,046	9.8298212	1377	10.1701788	14797,176	31 0168,665	9.9623061	2536
32 6760,190	9.8299589	1377	10.1700411	14792,483	32 0174,020	9.9625597	2536
33 6762,333	9.8300966	1376	10.1699034	14787,795	33 0179,379	9.9628133	2536
34 6764,476	9.8302342	1375	10.1697658	14783,111	34 0184,740	9.9630669	2536
35 6766,618	9.8303717	1374	10.1696283	14778,431	35 0190,104	9.9633204	2535
36 6768,760	9.8305091	1373	10.1694909	14773,755	36 0195,471	9.9635740	2536
37 6770,901	9.8306464	1373	10.1693536	14769,084	37 0200,841	9.9638275	2535
38 6773,041	9.8307837	1372	10.1692163	14764,417	38 0206,214	9.9640811	2536
39 6775,181	9.8309209	1371	10.1690791	14759,754	39 0211,590	9.9643346	2535
40 6777,320	9.8310580	1370	10.1689420	14755,095	40 0216,969	9.9645881	2535
41 6779,459	9.8311950	1370	10.1688050	14750,440	41 0222,350	9.9648416	2535
42 6781,597	9.8313320	1368	10.1686680	14745,790	42 0227,734	9.9650951	2535
43 6783,734	9.8314688	1368	10.1685312	14741,144	43 0233,122	9.9653486	2535
44 6785,871	9.8316056	1367	10.1683944	14736,502	44 0238,512	9.9656020	2534
45 6788,007	9.8317423	1366	10.1682577	14731,864	45 0243,903	9.9658555	2535
46 6790,143	9.8318789	1366	10.1681211	14727,230	46 0249,300	9.9661089	2534
47 6792,278	9.8320155	1365	10.1679845	14722,600	47 0254,701	9.9663623	2534
48 6794,413	9.8321519	1364	10.1678481	14717,975	48 0260,102	9.9666157	2534
49 6796,547	9.8322883	1363	10.1677117	14713,354	49 0265,506	9.9668692	2535
50 6798,681	9.8324246	1363	10.1675754	14708,736	50 0270,914	9.9671225	2533
51 6800,813	9.8325609	1361	10.1674391	14704,123	51 0276,324	9.9673759	2534
52 6802,946	9.8326970	1361	10.1673030	14699,514	52 0281,738	9.9676293	2534
53 6805,078	9.8328331	1360	10.1671669	14694,910	53 0287,154	9.9678827	2534
54 6807,209	9.8329691	1359	10.1670309	14690,309	54 0292,570	9.9681360	2533
55 6809,339	9.8331050	1358	10.1668950	14685,713	55 0297,990	9.9683893	2533
56 6811,469	9.8332408	1358	10.1667592	14681,120	56 0303,411	9.9686426	2534
57 6813,599	9.8333766	1356	10.1666234	14676,532	57 0308,849	9.9688960	2533
58 6815,728	9.8335122	1356	10.1664878	14671,948	58 0314,280	9.9691493	2533
59 6817,856	9.8336478	1355	10.1663522	14667,368	59 0319,714	9.9694026	2533
60 6819,984	9.8337833	1355	10.1662167	14662,792	60 0325,151	9.9696559	2533
Co-lines		Diff	L. Sec.		N. Sec.		Diff
					Co-rangents		Diff

# 42 Degrees

Diff.	Co-tangents			M.	N. Sec.	L. Sec.	Diff.	Co-fines		
	10.0455626	1106,125	60		13456,327	10.1289263		9.8710735	7431,448	60
2541	10.0453085	11099,030	59	1	13469,853	10.1290403	1138	9.8709597	7429,502	59
2540	10.0450545	11093,140	58	2	13463,382	10.1291542	1139	9.8708458	7427,554	58
2540	10.0448005	11086,653	57	3	13466,914	10.1292681	1139	9.8707319	7425,606	57
2540	10.0445465	11080,171	56	4	13470,449	10.1293821	1140	9.8706179	7423,658	56
2540	10.0442925	11073,693	55	5	13473,987	10.1294961	1140	9.8705039	7421,708	55
2540	10.0440385	11067,210	54	6	13477,528	10.1296102	1141	9.8703898	7419,758	54
2539	10.0437846	11060,750	53	7	13481,072	10.1297244	1142	9.8702756	7417,808	53
2540	10.0435306	11054,284	52	8	13484,619	10.1298387	1143	9.8701613	7415,857	52
2339	10.0432767	11047,823	51	9	13488,168	10.1299530	1143	9.8700470	7413,905	51
2539	10.0430228	11041,365	50	10	13491,721	10.1300674	1144	9.8699326	7411,953	50
2539	10.0427689	11034,912	49	11	13495,277	10.1301818	1144	9.8698182	7410,000	49
2539	10.0425150	11028,463	48	12	13498,836	10.1302963	1145	9.8697037	7408,046	48
2539	10.0422611	11022,019	47	13	13502,398	10.1304109	1146	9.8695891	7406,092	47
2538	10.0420073	11015,578	46	14	13505,963	10.1305256	1147	9.8694744	7404,137	46
2538	10.0417535	11009,141	45	15	13509,531	10.1306403	1147	9.8693597	7402,181	45
2539	10.0414996	11002,709	44	16	13513,102	10.1307551	1148	9.8692449	7400,225	44
2538	10.0412458	10996,281	43	17	13516,677	10.1308699	1149	9.8691301	7398,268	43
2538	10.0409920	10989,857	42	18	13520,254	10.1309848	1149	9.8690152	7396,311	42
2538	10.0407381	10983,430	41	19	13523,834	10.1310998	1150	9.8689002	7394,353	41
2537	10.0404845	10977,002	40	20	13527,417	10.1312149	1151	9.8687851	7392,394	40
2538	10.0402307	10970,569	39	21	13531,003	10.1313300	1151	9.8686700	7390,435	39
2537	10.0399770	10964,201	38	22	13534,593	10.1314452	1152	9.8685548	7388,475	38
2537	10.0397233	10957,797	37	23	13538,185	10.1315604	1152	9.8684396	7386,515	37
2538	10.0394695	10951,397	36	24	13541,780	10.1316755	1154	9.8683242	7384,553	36
2537	10.0392158	10945,002	35	25	13545,379	10.1317912	1154	9.8682088	7382,592	35
2536	10.0389622	10938,610	34	26	13548,980	10.1319066	1155	9.8680934	7380,629	34
2537	10.0387085	10932,223	33	27	13552,585	10.1320221	1155	9.8679779	7378,666	33
2537	10.0384548	10925,840	32	28	13556,193	10.1321377	1156	9.8678623	7376,703	32
2536	10.0382012	10919,460	31	29	13559,803	10.1322534	1157	9.8677466	7374,738	31
2537	10.0379475	10913,085	30	30	13563,417	10.1323691	1157	9.8676309	7372,773	30
2536	10.0376939	10906,714	29	31	13567,034	10.1324849	1158	9.8675151	7370,808	29
2536	10.0374403	10900,347	28	32	13570,654	10.1326008	1159	9.8673992	7368,842	28
2536	10.0371867	10893,984	27	33	13574,277	10.1327167	1159	9.8672833	7366,875	27
2536	10.0369331	10887,624	26	34	13577,903	10.1328327	1160	9.8671673	7364,908	26
2535	10.0366796	10881,269	25	35	13581,532	10.1329488	1161	9.8670513	7362,940	25
2536	10.0364260	10874,918	24	36	13585,164	10.1330649	1161	9.8669351	7360,971	24
2535	10.0361725	10868,571	23	37	13588,800	10.1331811	1162	9.8668189	7359,002	23
2536	10.0359189	10862,228	22	38	13592,438	10.1332974	1163	9.8667026	7357,032	22
2535	10.0356654	10855,889	21	39	13596,080	10.1334137	1164	9.8665863	7355,061	21
2535	10.0354119	10849,554	20	40	13599,725	10.1335301	1164	9.8664699	7353,090	20
2535	10.0351584	10843,223	19	41	13603,372	10.1336466	1165	9.8663534	7351,118	19
2535	10.0349049	10836,896	18	42	13607,023	10.1337631	1165	9.8662369	7349,146	18
2535	10.0346514	10830,573	17	43	13610,677	10.1338797	1166	9.8661203	7347,173	17
2534	10.0343980	10824,254	16	44	13614,334	10.1339964	1167	9.8660036	7345,200	16
2535	10.0341445	10817,939	15	45	13617,995	10.1341132	1168	9.8658868	7343,225	15
2534	10.0338911	10811,628	14	46	13621,658	10.1342300	1169	9.8657700	7341,250	14
2534	10.0336377	10805,321	13	47	13625,324	10.1343469	1169	9.8656531	7339,275	13
2534	10.0333843	10799,018	12	48	13628,994	10.1344638	1170	9.8655362	7337,299	12
2535	10.0331308	10792,718	11	49	13632,667	10.1345808	1171	9.8654192	7335,322	11
2533	10.0328775	10786,423	10	50	13636,343	10.1346979	1171	9.8653021	7333,345	10
2534	10.0326241	10780,132	9	51	13640,022	10.1348151	1172	9.8651849	7331,367	9
2534	10.0323707	10773,845	8	52	13643,704	10.1349323	1173	9.8650677	7329,388	8
2533	10.0321173	10767,561	7	53	13647,389	10.1350496	1173	9.8649504	7327,409	7
2533	10.0318640	10761,282	6	54	13651,078	10.1351669	1175	9.8648331	7325,429	6
2533	10.0316107	10755,006	5	55	13654,770	10.1352844	1175	9.8647156	7323,449	5
2534	10.0313573	10748,734	4	56	13658,464	10.1354019	1175	9.8645981	7321,467	4
2533	10.0311040	10742,467	3	57	13662,162	10.1355194	1177	9.8644806	7319,486	3
2533	10.0308507	10736,203	2	58	13665,863	10.1356371	1177	9.8643629	7317,503	2
2533	10.0305974	10729,943	1	59	13669,567	10.1357548	1177	9.8642452	7315,521	1
2533	10.0303441	10723,687	0	60	13673,275	10.1358725	1177	9.8641275	7313,537	0
Diff.	L. Tang.	N. Tan	M.		Co-secants		Diff.	L. Sine	N. Sine	M.

# 47 Degrees

# 43 Degrees

M. N. Sine	L. Sine	Diff.	Co-secants			M. N. Tan.	L. Tan.	Diff.
0 6819,984	9.8337833	1355	10.1662167	14662,792	60	0 9325,151	9.966559	2532
1 6822,111	9.8339188	1353	10.1660812	14658,220	59	1 9330,591	9.9669091	2533
2 6824,237	9.8340541	1353	10.1659459	14653,652	58	2 9336,034	9.9671624	2533
3 6826,363	9.8341894	1352	10.1658106	14649,089	57	3 9341,479	9.9674157	2532
4 6828,489	9.8343246	1351	10.1656754	14644,529	56	4 9346,928	9.9676689	2532
5 6830,613	9.8344597	1351	10.1655403	14639,973	55	5 9352,380	9.9679221	2532
6 6832,738	9.8345948	1349	10.1654052	14635,422	54	6 9357,834	9.9681754	2533
7 6834,861	9.8347297	1349	10.1652703	14630,875	53	7 9363,292	9.9684286	2532
8 6836,984	9.8348646	1348	10.1651354	14626,331	52	8 9368,753	9.9686818	2532
9 6839,107	9.8349994	1347	10.1650006	14621,792	51	9 9374,216	9.9689350	2532
10 6841,229	9.8351341	1347	10.1648659	14617,257	50	10 9379,683	9.9691882	2532
11 6843,350	9.8352688	1345	10.1647312	14612,726	49	11 9385,153	9.9694413	2531
12 6845,471	9.8354033	1345	10.1645967	14608,198	48	12 9390,625	9.9696945	2532
13 6847,591	9.8355378	1344	10.1644622	14603,675	47	13 9396,101	9.9699477	2532
14 6849,711	9.8356722	1344	10.1643278	14599,156	46	14 9401,579	9.9702008	2531
15 6851,830	9.8358066	1342	10.1641934	14594,641	45	15 9407,061	9.9704539	2531
16 6853,948	9.8359408	1342	10.1640592	14590,130	44	16 9412,545	9.9707071	2532
17 6856,066	9.8360750	1341	10.1639250	14585,623	43	17 9418,033	9.9709602	2531
18 6858,184	9.8362091	1340	10.1637909	14581,120	42	18 9423,523	9.9712133	2531
19 6860,300	9.8363431	1340	10.1636569	14576,621	41	19 9429,017	9.9714664	2531
20 6862,416	9.8364771	1338	10.1635229	14572,127	40	20 9434,513	9.9717195	2531
21 6864,532	9.8366109	1338	10.1633891	14567,636	39	21 9440,013	9.9719726	2531
22 6866,647	9.8367447	1337	10.1632553	14563,149	38	22 9445,516	9.9722257	2531
23 6868,761	9.8368784	1337	10.1631216	14558,666	37	23 9451,021	9.9724787	2530
24 6870,875	9.8370121	1335	10.1629879	14554,187	36	24 9456,530	9.9727318	2531
25 6872,988	9.8371456	1335	10.1628544	14549,712	35	25 9462,042	9.9729849	2531
26 6875,101	9.8372791	1334	10.1627209	14545,241	34	26 9467,556	9.9732379	2530
27 6877,213	9.8374125	1333	10.1625875	14540,774	33	27 9473,074	9.9734909	2531
28 6879,325	9.8375458	1332	10.1624542	14536,311	32	28 9478,595	9.9737440	2531
29 6881,435	9.8376790	1332	10.1623210	14531,852	31	29 9484,119	9.9739970	2530
30 6883,546	9.8378122	1331	10.1621878	14527,397	30	30 9489,646	9.9742500	2530
31 6885,655	9.8379453	1330	10.1620547	14522,946	29	31 9495,176	9.9745030	2530
32 6887,765	9.8380783	1329	10.1619217	14518,498	28	32 9500,709	9.9747560	2530
33 6889,873	9.8382112	1329	10.1617888	14514,055	27	33 9506,245	9.9750090	2530
34 6891,981	9.8383441	1328	10.1616559	14509,616	26	34 9511,784	9.9752620	2530
35 6894,089	9.8384769	1327	10.1615231	14505,181	25	35 9517,326	9.9755149	2529
36 6896,195	9.8386096	1327	10.1613904	14500,749	24	36 9522,871	9.9757679	2530
37 6898,302	9.8387422	1326	10.1612578	14496,322	23	37 9528,420	9.9760209	2530
38 6900,407	9.8388747	1325	10.1611253	14491,898	22	38 9533,971	9.9762738	2529
39 6902,512	9.8390072	1325	10.1609928	14487,478	21	39 9539,526	9.9765268	2530
40 6904,617	9.8391396	1324	10.1608604	14483,063	20	40 9545,083	9.9767797	2529
41 6906,721	9.8392715	1323	10.1607281	14478,651	19	41 9550,644	9.9770326	2529
42 6908,824	9.8394041	1322	10.1605959	14474,243	18	42 9556,208	9.9772856	2530
43 6910,927	9.8395363	1322	10.1604637	14469,839	17	43 9561,774	9.9775385	2529
44 6913,029	9.8396684	1320	10.1603316	14465,439	16	44 9567,344	9.9777914	2529
45 6915,131	9.8398004	1319	10.1601996	14461,043	15	45 9572,917	9.9780443	2529
46 6917,232	9.8399323	1319	10.1600677	14456,651	14	46 9578,494	9.9782972	2529
47 6919,332	9.8400642	1319	10.1599358	14452,262	13	47 9584,073	9.9785501	2529
48 6921,432	9.8401959	1317	10.1598041	14447,878	12	48 9589,655	9.9788030	2529
49 6923,531	9.8403276	1317	10.1596724	14443,497	11	49 9595,241	9.9790559	2528
50 6925,630	9.8404593	1315	10.1595407	14439,120	10	50 9600,829	9.9793087	2528
51 6927,728	9.8405908	1315	10.1594092	14434,748	9	51 9606,421	9.9795616	2528
52 6929,825	9.8407223	1314	10.1592777	14430,379	8	52 9612,016	9.9798145	2528
53 6931,922	9.8408537	1313	10.1591463	14426,013	7	53 9617,614	9.9800673	2529
54 6934,018	9.8409850	1312	10.1590150	14421,652	6	54 9623,213	9.9803202	2529
55 6936,114	9.8411162	1312	10.1588838	14417,295	5	55 9628,819	9.9805730	2528
56 6938,209	9.8412474	1311	10.1587526	14412,941	4	56 9634,427	9.9808259	2528
57 6940,304	9.8413785	1310	10.1586213	14408,592	3	57 9640,037	9.9810787	2528
58 6942,398	9.8415095	1309	10.1584905	14404,246	2	58 9645,651	9.9813315	2529
59 6944,491	9.8416404	1309	10.1583596	14399,904	1	59 9651,268	9.9815844	2528
60 6946,584	9.8417713	1309	10.1582287	14395,565	0	60 9656,888	9.9818372	2528
Co-fines		Diff.	L. Sec. N. Sec. M.			Co-tangents		Diff.

## 46 Degrees

# 43 Degrees

Diff	Co-tangents		M	N. Sec.	L. Sec.	Diff.	Co-fines	
2532	10.0303441	10723,687	6c	13673,275	10.1358725	1179	9.8641275	7313,537
2533	10.0300909	10717,435	59	13676,985	10.1359904	1179	9.8640066	7311,553
2533	10.0298376	10711,187	58	13680,699	10.1361083	1180	9.8638917	7309,568
2533	10.0295843	10704,943	57	13684,416	10.1362263	1180	9.8637737	7307,583
2532	10.0293311	10698,702	56	13688,136	10.1363443	1181	9.8636557	7305,597
2532	10.0290779	10692,466	55	13691,859	10.1364624	1181	9.8635376	7303,610
2533	10.0288246	10686,233	54	13695,586	10.1365806	1182	9.8634194	7301,623
2532	10.0285714	10680,004	53	13699,315	10.1366989	1183	9.8633011	7299,635
2532	10.0283182	10673,779	52	13703,048	10.1368172	1183	9.8631828	7297,646
2532	10.0280650	10667,558	51	13706,784	10.1369356	1184	9.8630644	7295,657
2532	10.0278118	10661,341	50	13710,523	10.1370540	1184	9.8629460	7293,668
2531	10.0275587	10655,128	49	13714,266	10.1371726	1186	9.8628274	7291,677
2532	10.0273055	10648,918	48	13718,011	10.1372912	1186	9.8627088	7289,686
2532	10.0270523	10642,713	47	13721,760	10.1374098	1186	9.8625902	7287,695
2531	10.0267992	10636,511	46	13725,512	10.1375286	1188	9.8624714	7285,703
2531	10.0265461	10630,313	45	13729,268	10.1376474	1188	9.8623526	7283,710
2532	10.0262929	10624,119	44	13733,026	10.1377662	1188	9.8622338	7281,716
2531	10.0260398	10617,929	43	13736,788	10.1378852	1190	9.8621148	7279,722
2531	10.0257867	10611,742	42	13740,553	10.1380042	1190	9.8619958	7277,728
2531	10.0255336	10605,560	41	13744,321	10.1381233	1191	9.8618767	7275,732
2531	10.0252805	10599,381	40	13748,092	10.1382424	1191	9.8617576	7273,736
2531	10.0250274	10593,206	39	13751,867	10.1383617	1193	9.8616383	7271,740
2531	10.0247743	10587,035	38	13755,645	10.1384810	1193	9.8615190	7269,743
2530	10.0245213	10580,867	37	13759,426	10.1386003	1193	9.8613997	7267,745
2531	10.0242682	10574,704	36	13763,210	10.1387197	1194	9.8612803	7265,747
2531	10.0240151	10568,544	35	13766,998	10.1388392	1195	9.8611608	7263,748
2530	10.0237621	10562,388	34	13770,789	10.1389588	1196	9.8610412	7261,748
2530	10.0235091	10556,235	33	13774,583	10.1390785	1197	9.8609215	7259,748
2531	10.0232560	10550,087	32	13778,380	10.1391982	1197	9.8608018	7257,747
2530	10.0230030	10543,942	31	13782,181	10.1393179	1199	9.8606821	7255,746
2530	10.0227500	10537,801	30	13785,985	10.1394376	1199	9.8605622	7253,744
2530	10.0224970	10531,664	29	13789,792	10.1395577	1199	9.8604423	7251,741
2530	10.0222440	10525,531	28	13793,602	10.1396777	1200	9.8603223	7249,738
2530	10.0219910	10519,401	27	13797,416	10.1397978	1201	9.8602022	7247,734
2530	10.0217380	10513,275	26	13801,233	10.1399179	1202	9.8600821	7245,732
2529	10.0214851	10507,153	25	13805,053	10.1400381	1203	9.8599619	7243,729
2530	10.0212321	10501,034	24	13808,877	10.1401584	1203	9.8598416	7241,724
2530	10.0209791	10494,920	23	13812,704	10.1402787	1204	9.8597213	7239,719
2529	10.0207262	10488,809	22	13816,534	10.1403991	1205	9.8596009	7237,715
2530	10.0204732	10482,702	21	13820,367	10.1405196	1205	9.8594804	7235,709
2529	10.0202203	10476,598	20	13824,204	10.1406401	1206	9.8593599	7233,705
2529	10.0199674	10470,498	19	13828,044	10.1407607	1207	9.8592393	7231,698
2530	10.0197144	10464,402	18	13831,887	10.1408814	1207	9.8591186	7229,691
2529	10.0194615	10458,310	17	13835,734	10.1410022	1208	9.8589978	7227,681
2529	10.0192086	10452,221	16	13839,584	10.1411230	1209	9.8588770	7225,671
2529	10.0189557	10446,136	15	13843,437	10.1412439	1210	9.8587561	7223,660
2529	10.0187028	10440,055	14	13847,294	10.1413649	1210	9.8586351	7221,648
2529	10.0184499	10433,977	13	13851,153	10.1414859	1212	9.8585141	7219,635
2529	10.0181970	10427,904	12	13855,017	10.1416071	1212	9.8583929	7217,622
2529	10.0179441	10421,833	11	13858,883	10.1417282	1211	9.8582718	7215,608
2526	10.0176913	10415,767	10	13862,753	10.1418495	1213	9.8581505	7213,594
2529	10.0174384	10409,704	9	13866,626	10.1419708	1214	9.8580292	7211,579
2529	10.0171855	10403,645	8	13870,503	10.1420922	1215	9.8579078	7209,564
2528	10.0169327	10397,589	7	13874,381	10.1422137	1215	9.8577863	7207,548
2529	10.0166798	10391,538	6	13878,266	10.1423352	1216	9.8576648	7205,531
2528	10.0164270	10385,489	5	13882,153	10.1424568	1217	9.8575432	7203,514
2529	10.0161741	10379,445	4	13886,043	10.1425785	1217	9.8574215	7201,497
2528	10.0159213	10373,404	3	13889,936	10.1427002	1219	9.8572998	7199,478
2528	10.0156685	10367,367	2	13893,832	10.1428221	1218	9.8571779	7197,458
2529	10.0154156	10361,333	1	13897,733	10.1429439	1220	9.8570561	7195,438
2528	10.0151628	10355,303	c	13901,636	10.1430659	1220	9.8569341	7193,418
Diff	L. Tang.	N. Tan	M	Co-secants		Diff.	L. Sine	N. Sine

# 46 Degrees

No

# 44 Degrees

M	N. Sine	L. Sine	Diff.	Co-secants		M	N. Tan.	L. Tan.	Diff.
0	6946,584	9.8417713		10.1582287	14395,565	60	99656,888	9.9848372	
1	6948,676	9.8419021	1308	10.1580979	14391,231	59	99662,511	9.9850900	2528
2	6950,767	9.8420328	1307	10.1579672	14386,900	58	99668,137	9.9853428	2528
3	6952,858	9.8421634	1306	10.1578366	14382,574	57	99673,767	9.9855956	2528
4	6954,949	9.8422939	1305	10.1577061	14378,251	56	99679,399	9.9858484	2528
5	6957,039	9.8424244	1305	10.1575756	14373,932	55	99685,035	9.9861012	2528
6	6959,128	9.8425548	1304	10.1574452	14369,616	54	99690,674	9.9863540	2528
7	6961,217	9.8426851	1303	10.1573149	14365,305	53	99696,316	9.9866068	2528
8	6963,305	9.8428154	1303	10.1571846	14360,997	52	99701,962	9.9868596	2527
9	6965,392	9.8429456	1302	10.1570544	14356,693	51	99707,610	9.9871123	2528
10	6967,479	9.8430757	1301	10.1569243	14352,393	50	99713,262	9.9873651	2528
11	6969,565	9.8432057	1300	10.1567943	14348,097	49	99718,917	9.9876179	2527
12	6971,651	9.8433356	1299	10.1566644	14343,805	48	99724,575	9.9878706	2528
13	6973,736	9.8434655	1299	10.1565345	14339,516	47	99730,230	9.9881234	2527
14	6975,821	9.8435953	1298	10.1564047	14335,231	46	99735,901	9.9883761	2528
15	6977,905	9.8437250	1297	10.1562750	14330,950	45	99741,569	9.9886289	2527
16	6979,988	9.8438547	1297	10.1561453	14326,672	44	99747,240	9.9888816	2528
17	6982,071	9.8439842	1295	10.1560158	14322,399	43	99752,914	9.9891344	2527
18	6984,153	9.8441137	1295	10.1558863	14318,129	42	99758,591	9.9893871	2528
19	6986,234	9.8442432	1293	10.1557568	14313,863	41	99764,272	9.9896399	2527
20	6988,315	9.8443725	1293	10.1556275	14309,600	40	99769,956	9.9898926	2527
21	6990,396	9.8445018	1292	10.1554982	14305,342	39	99775,643	9.9901453	2528
22	6992,476	9.8446310	1292	10.1553690	14301,087	38	99781,333	9.9903981	2527
23	6994,555	9.8447601	1291	10.1552399	14296,837	37	99787,027	9.9906508	2527
24	6996,633	9.8448891	1290	10.1551109	14292,588	36	99792,724	9.9909035	2527
25	6998,711	9.8450181	1290	10.1549819	14288,345	35	99798,424	9.9911562	2527
26	7000,789	9.8451470	1289	10.1548530	14284,105	34	99804,127	9.9914089	2527
27	7002,866	9.8452758	1288	10.1547242	14279,868	33	99809,833	9.9916616	2527
28	7004,942	9.8454045	1287	10.1545955	14275,636	32	99815,543	9.9919143	2527
29	7007,018	9.8455333	1287	10.1544668	14271,407	31	99821,256	9.9921670	2527
30	7009,093	9.8456618	1286	10.1543382	14267,182	30	99826,973	9.9924197	2527
31	7011,167	9.8457903	1285	10.1542097	14262,961	29	99832,692	9.9926724	2527
32	7013,241	9.8459188	1285	10.1540812	14258,743	28	99838,415	9.9929251	2527
33	7015,314	9.8460471	1283	10.1539529	14254,529	27	99844,141	9.9931778	2527
34	7017,387	9.8461754	1283	10.1538246	14250,319	26	99849,871	9.9934305	2527
35	7019,459	9.8463036	1282	10.1536964	14246,112	25	99855,603	9.9936832	2527
36	7021,531	9.8464318	1282	10.1535682	14241,909	24	99861,339	9.9939359	2527
37	7023,601	9.8465599	1281	10.1534401	14237,710	23	99867,079	9.9941886	2527
38	7025,672	9.8466879	1280	10.1533121	14233,514	22	99872,821	9.9944413	2527
39	7027,741	9.8468158	1279	10.1531842	14229,323	21	99878,567	9.9946940	2526
40	7029,811	9.8469436	1278	10.1530564	14225,134	20	99884,316	9.9949466	2527
41	7031,879	9.8470714	1278	10.1529286	14220,950	19	99890,069	9.9951993	2527
42	7033,947	9.8471991	1277	10.1528009	14216,769	18	99895,825	9.9954520	2527
43	7036,014	9.8473267	1276	10.1526733	14212,592	17	99901,584	9.9957047	2526
44	7038,081	9.8474543	1276	10.1525457	14208,418	16	99907,346	9.9959573	2527
45	7040,147	9.8475817	1274	10.1524183	14204,248	15	99913,112	9.9962100	2527
46	7042,213	9.8477091	1274	10.1522909	14200,082	14	99918,881	9.9964627	2527
47	7044,278	9.8478365	1274	10.1521635	14195,920	13	99924,654	9.9967154	2526
48	7046,342	9.8479637	1272	10.1520363	14191,761	12	99930,429	9.9969680	2527
49	7048,406	9.8480909	1272	10.1519091	14187,605	11	99936,208	9.9972207	2527
50	7050,469	9.8482180	1271	10.1517820	14183,454	10	99941,991	9.9974734	2526
51	7052,532	9.8483450	1270	10.1516550	14179,306	9	99947,777	9.9977260	2527
52	7054,594	9.8484720	1269	10.1515280	14175,161	8	99953,566	9.9979787	2527
53	7056,655	9.8485989	1268	10.1514011	14171,020	7	99959,358	9.9982314	2526
54	7058,716	9.8487257	1268	10.1512743	14166,883	6	99965,154	9.9984840	2527
55	7060,776	9.8488524	1267	10.1511476	14162,749	5	99970,953	9.9987367	2526
56	7062,835	9.8489791	1267	10.1510209	14158,619	4	99976,756	9.9989893	2527
57	7064,894	9.8491057	1266	10.1508943	14154,493	3	99982,562	9.9992420	2527
58	7066,953	9.8492322	1265	10.1507678	14150,370	2	99988,371	9.9994947	2526
59	7069,011	9.8493586	1264	10.1506414	14146,251	1	99994,184	9.9997473	2527
60	7071,068	9.8494850	1264	10.1505150	14142,136	0	10000,000	10.0000000	2527
	Co-fines		Diff.	L. Sec.	N. Sec.	M	Co-tangents		Diff.

# 45 Degrees

# 44 Degrees

Diff.	Co-tangents		M	N. Sec.	L. Sec.	Diff.	Co-fines		M
2528	10.0151628	10355,303	60	13901,636	10.1430659	1220	9.8569341	7193,398	60
2528	10.0149100	10349,277	59	13905,543	10.1431875	1221	9.8568121	7191,377	59
2528	10.0146572	10343,254	58	13909,453	10.1433100	1222	9.8566900	7189,355	58
2528	10.0144044	10337,235	57	13913,366	10.1434322	1223	9.8565678	7187,333	57
2528	10.0141516	10331,220	56	13917,283	10.1435545	1223	9.8564455	7185,310	56
2528	10.0138988	10325,208	55	13921,203	10.1436768	1224	9.8563232	7183,287	55
2528	10.0136460	10319,195	54	13925,127	10.1437992	1224	9.8562008	7181,263	54
2528	10.0133932	10313,195	53	13929,054	10.1439216	1224	9.8560784	7179,238	53
2528	10.0131404	10307,194	52	13932,985	10.1440442	1226	9.8559558	7177,213	52
2527	10.0128877	10301,196	51	13936,915	10.1441668	1226	9.8558332	7175,187	51
2528	10.0126349	10295,203	50	13940,856	10.1442894	1226	9.8557106	7173,161	50
2528	10.0123821	10289,212	49	13944,796	10.1444122	1228	9.8555878	7171,134	49
2527	10.0121294	10283,226	48	13948,740	10.1445350	1228	9.8554650	7169,106	48
2528	10.0118766	10277,243	47	13952,688	10.1446579	1229	9.8553421	7167,078	47
2528	10.0116239	10271,263	46	13956,639	10.1447808	1229	9.8552192	7165,049	46
2528	10.0113711	10265,287	45	13960,593	10.1449039	1231	9.8550961	7163,019	45
2528	10.0111184	10259,315	44	13964,551	10.1450270	1231	9.8549730	7160,989	44
2527	10.0108656	10253,346	43	13968,512	10.1451501	1231	9.8548499	7158,959	43
2527	10.0106129	10247,381	42	13972,477	10.1452734	1233	9.8547266	7156,927	42
2528	10.0103601	10241,419	41	13976,445	10.1453967	1233	9.8546033	7154,895	41
2527	10.0101074	10235,461	40	13980,416	10.1455201	1234	9.8544799	7152,863	40
2528	10.0098547	10229,506	39	13984,391	10.1456436	1235	9.8543564	7150,830	39
2528	10.0096019	10223,555	38	13988,369	10.1457671	1235	9.8542329	7148,796	38
2527	10.0093492	10217,608	37	13992,351	10.1458907	1236	9.8541093	7146,762	37
2527	10.0090965	10211,664	36	13996,336	10.1460144	1237	9.8539856	7144,727	36
2527	10.0088438	10205,723	35	14000,325	10.1461381	1237	9.8538619	7142,691	35
2527	10.0085911	10199,786	34	14004,317	10.1462619	1238	9.8537381	7140,655	34
2527	10.0083384	10193,853	33	14008,313	10.1463858	1239	9.8536142	7138,618	33
2527	10.0080857	10187,923	32	14012,312	10.1465098	1240	9.8534902	7136,581	32
2527	10.0078330	10181,997	31	14016,315	10.1466338	1241	9.8533662	7134,543	31
2527	10.0075803	10176,074	30	14020,321	10.1467579	1242	9.8532421	7132,504	30
2527	10.0073276	10170,155	29	14024,330	10.1468821	1243	9.8531179	7130,465	29
2527	10.0070749	10164,239	28	14028,343	10.1470064	1243	9.8529936	7128,426	28
2527	10.0068222	10158,326	27	14032,360	10.1471307	1244	9.8528693	7126,385	27
2527	10.0065695	10152,418	26	14036,380	10.1472551	1245	9.8527449	7124,344	26
2527	10.0063168	10146,512	25	14040,403	10.1473796	1245	9.8526204	7122,303	25
2527	10.0060641	10140,610	24	14044,430	10.1475041	1246	9.8524959	7120,260	24
2527	10.0058114	10134,712	23	14048,461	10.1476287	1247	9.8523713	7118,218	23
2527	10.0055587	10128,817	22	14052,494	10.1477534	1248	9.8522466	7116,174	22
2527	10.0053060	10122,925	21	14056,532	10.1478782	1248	9.8521218	7114,130	21
2526	10.0050534	10117,038	20	14060,573	10.1480030	1249	9.8519970	7112,086	20
2527	10.0048007	10111,153	19	14064,617	10.1481279	1250	9.8518721	7110,041	19
2527	10.0045480	10105,272	18	14068,665	10.1482529	1251	9.8517471	7107,995	18
2527	10.0042953	10099,394	17	14072,717	10.1483780	1251	9.8516220	7105,948	17
2526	10.0040427	10093,520	16	14076,772	10.1485031	1252	9.8514969	7103,901	16
2527	10.0037900	10087,649	15	14080,831	10.1486283	1252	9.8513717	7101,854	15
2527	10.0035373	10081,782	14	14084,893	10.1487535	1253	9.8512465	7099,806	14
2526	10.0032846	10075,918	13	14088,958	10.1488789	1254	9.8511211	7097,757	13
2526	10.0030320	10070,058	12	14093,023	10.1490043	1255	9.8509957	7095,707	12
2527	10.0027793	10064,201	11	14097,100	10.1491298	1256	9.8508702	7093,657	11
2526	10.0025266	10058,348	10	14101,177	10.1492554	1256	9.8507446	7091,607	10
2527	10.0022740	10052,497	9	14105,257	10.1493810	1257	9.8506190	7089,556	9
2527	10.0020213	10046,651	8	14109,340	10.1495067	1258	9.8504933	7087,504	8
2527	10.0017686	10040,807	7	14113,427	10.1496325	1258	9.8503675	7085,451	7
2526	10.0015160	10034,968	6	14117,517	10.1497583	1260	9.8502417	7083,398	6
2527	10.0012633	10029,131	5	14121,612	10.1498843	1260	9.8501157	7081,345	5
2526	10.0010107	10023,298	4	14125,709	10.1500103	1261	9.8499899	7079,291	4
2527	10.0007580	10017,469	3	14129,810	10.1501363	1262	9.8498637	7077,236	3
2527	10.0005053	10011,642	2	14133,915	10.1502625	1262	9.8497375	7075,180	2
2526	10.0002527	10005,815	1	14138,024	10.1503887	1263	9.8496113	7073,124	1
2527	10.0000000	10000,000	0	14142,136	10.1505150	1263	9.8494850	7071,068	0
Diff.	L. Tang	N. Tan.	M	Co-secants		Diff.	L. Sine	N. Sine	M

## 45 Degrees





A

# T A B L E

O F

*Natural and Logarithmic*

## Verfed-Sines,

To every Minute of the Q U A D R A N T.



Min	0 Deg.		1 Deg.		2 Deg.		3 Deg.		Min
	N.V. fine	L Ver. fine	N.V. fine	L Ver. fine	N.V. fine	L Ver. fine	N.V. fine	L Ver. fine	
0	0000,000		0001,523	6.1827137	0006,092	6.7847406	0013,705	7.1368680	0
1	0000,000	2.6264222	0001,574	6.1970705	0006,194	6.7919481	0013,857	7.1416791	1
2	0,002	3.2284822	1,626	6.2111938	006,296	6.7990963	14,011	7.1464636	2
3	0,004	3.5806647	1,679	6.2250912	06,400	6.8061861	14,165	7.1512219	3
4	0,007	3.8305422	1,733	6.2387656	06,505	6.8132185	14,320	7.1559542	4
5	0,011	4.0243622	1,787	6.2522360	06,610	6.8201944	14,476	7.1606609	5
6	0,015	4.1827246	1,843	6.2654968	06,716	6.8271147	14,633	7.1653422	6
7	0000,021	4.3166182	0001,899	6.2785581	0006,823	6.8339803	0014,791	7.1699984	7
8	0,027	4.4326020	1,956	6.2914259	06,931	6.8407920	14,950	7.1746297	8
9	0,034	4.5349070	2,014	6.3041058	07,040	6.8475507	15,109	7.1792365	9
10	0,042	4.6264219	2,073	6.3166033	07,149	6.8542572	15,269	7.1838189	10
11	0,051	4.7092072	2,133	6.3289235	07,260	6.8609123	15,430	7.1883773	11
12	0,061	4.7847843	2,193	6.3410714	07,371	6.8675167	15,592	7.1929118	12
13	0000,072	4.8543084	0002,255	6.3530516	0007,483	6.8740714	0015,755	7.1974228	13
14	0,083	4.9186777	2,317	6.3648689	07,596	6.8805768	15,919	7.2019104	14
15	0,095	4.9786041	2,380	6.3765275	07,710	6.8870340	16,083	7.2063750	15
16	0,108	5.0346614	2,444	6.3880317	07,824	6.8934434	16,249	7.2108167	16
17	0,122	5.0873192	2,509	6.3993855	07,940	6.8998059	16,415	7.2152353	17
18	0,137	5.1369638	2,574	6.4105928	08,056	6.9061221	16,582	7.2196326	18
19	0000,153	5.1839283	0002,640	6.4216573	0008,173	6.9123227	0016,750	7.2240071	19
20	0,169	5.2284810	2,708	6.4325826	08,291	6.9186183	16,918	7.2283597	20
21	0,187	5.2708595	2,776	6.4433722	08,410	6.9247996	17,088	7.2326906	21
22	0,205	5.3112661	2,844	6.4540294	08,530	6.9309372	17,258	7.2370000	22
23	0,224	5.3498763	2,914	6.4645573	08,650	6.9370317	17,430	7.2412881	23
24	0,244	5.3868430	2,985	6.4749592	08,772	6.9430837	17,602	7.2455551	24
25	0000,264	5.4223003	0003,057	6.4852380	0008,894	6.9490939	0017,775	7.2498013	25
26	0,280	5.4636669	3,129	6.4953965	09,017	6.9550627	17,948	7.2540267	26
27	0,308	5.4891475	3,202	6.5054376	09,141	6.9609907	18,123	7.2582317	27
28	0,332	5.5207359	3,276	6.5153639	09,266	6.9668786	18,299	7.2624164	28
29	0,356	5.5512157	3,351	6.5251780	09,391	6.9727268	18,475	7.2665810	29
30	0,381	5.5806620	3,427	6.5348825	09,518	6.9785559	18,652	7.2707258	30
31	0000,407	5.6091427	0003,508	6.5444797	0009,645	6.9843063	0018,830	7.2748504	31
32	0,433	5.6367191	3,581	6.5539720	09,773	6.9900387	19,009	7.2789563	32
33	0,461	5.6634468	3,659	6.5633616	09,902	6.9967334	19,189	7.2830425	33
34	0,489	5.6893765	3,738	6.5726509	10,032	7.0033911	19,369	7.2871095	34
35	0,518	5.7145546	3,818	6.5818418	10,163	7.0097012	19,550	7.2911576	35
36	0,548	5.7390233	3,899	6.5909365	10,294	7.0125969	19,733	7.2951869	36
37	0000,579	5.7628215	0003,980	6.5999369	0010,427	7.0181461	0019,916	7.2991975	37
38	0,611	5.7859850	4,063	6.6088450	10,560	7.0236600	20,100	7.3031897	38
39	0,643	5.8085468	4,146	6.6176626	10,694	7.0291391	20,284	7.3071630	39
40	0,677	5.8305373	4,230	6.6263916	10,825	7.0345838	20,470	7.3111394	40
41	0,711	5.8519848	4,316	6.6350337	10,965	7.0399946	20,657	7.3150572	41
42	0,746	5.8729154	4,401	6.6435907	11,101	7.0463719	20,844	7.3189773	42
43	0000,782	5.8933535	0004,488	6.6520642	0011,239	7.0507161	0021,032	7.3228797	43
44	0,819	5.9133217	4,576	6.6604558	11,377	7.0560276	21,221	7.3267646	44
45	0,857	5.9328411	4,664	6.6687671	11,516	7.0613068	21,411	7.3306322	45
46	0,895	5.9519314	4,753	6.6769996	11,656	7.0665540	21,601	7.3344827	46
47	0,935	5.9706112	4,843	6.6851547	11,797	7.0717698	21,793	7.3383164	47
48	0,975	5.9888977	4,934	6.6932340	11,939	7.0769544	21,985	7.3421327	48
49	0001,016	6.0068070	0005,026	6.7012389	0012,081	7.0821082	0022,179	7.3459326	49
50	1,058	6.0243546	5,119	6.7091706	12,225	7.0872316	22,373	7.3497155	50
51	1,100	6.0415546	5,212	6.7170305	12,369	7.0923249	22,567	7.3534828	51
52	1,144	6.0584206	5,307	6.7248199	12,514	7.0979885	22,763	7.3572334	52
53	1,188	6.0749654	5,402	6.7325400	12,660	7.1024228	22,960	7.3609678	53
54	1,234	6.0912008	5,498	6.7401921	12,806	7.1074280	23,157	7.3646883	54
55	0001,280	6.1071384	0005,595	6.7477774	0012,954	7.1124045	0023,355	7.3683881	55
56	1,327	6.1227887	5,692	6.7552970	13,102	7.1173527	23,555	7.3720757	56
57	1,375	6.1381620	5,791	6.7627520	13,252	7.1222728	23,755	7.3757465	57
58	1,423	6.1532655	5,890	6.7701436	13,402	7.1271652	23,955	7.3794067	58
59	1,473	6.1681819	5,991	6.7774728	13,553	7.1320302	24,157	7.3830431	59
60	1,523	6.1827137	6,092	6.7847406	13,705	7.1368680	24,357	7.3866845	60

Min.	4 Deg.		5 Deg.		6 Deg.		7 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	0024,359	7.3866683	38,053	7.5803891	0054,781	7.7386303	0074,538	7.8723806	0
1	0024,563	7.3902785	0038,307	7.5832778	0055,086	7.7410375	0074,893	7.8744436	1
2	24,767	7.3938736	38,562	7.5861568	55,391	7.7434380	75,249	7.8765017	2
3	24,972	7.3974535	38,817	7.5890263	55,697	7.7458319	75,606	7.8785550	3
4	25,178	7.4010196	39,074	7.5918864	55,904	7.7482192	75,963	7.8806033	4
5	25,385	7.4045706	39,331	7.5947370	56,312	7.7505999	76,321	7.8826469	5
6	25,592	7.4081071	39,589	7.5975783	56,621	7.7529742	76,681	7.8846856	6
7	0025,801	7.4116293	0039,848	7.6004103	0056,930	7.7553419	0077,041	7.8867196	7
8	26,010	7.4151372	40,108	7.6032331	57,240	7.7577031	77,401	7.8887487	8
9	26,220	7.4186311	40,369	7.6060468	57,552	7.7600580	77,763	7.8907732	9
10	26,431	7.4221109	40,630	7.6088513	57,864	7.7624064	78,126	7.8927928	10
11	26,643	7.4255767	40,893	7.6116468	58,177	7.7647485	78,489	7.8948078	11
12	26,855	7.4290288	41,156	7.6144333	58,490	7.7670843	78,853	7.8968181	12
13	0027,069	7.4324673	0041,420	7.6172109	0058,805	7.7694138	0079,218	7.8988238	13
14	27,283	7.4358921	41,685	7.6199796	59,120	7.7717737	79,584	7.9008248	14
15	27,498	7.4393035	41,951	7.6227395	59,437	7.7740541	79,951	7.9028212	15
16	27,714	7.4427015	42,217	7.6254906	59,754	7.7763649	80,318	7.9048130	16
17	27,931	7.4460862	42,485	7.6282330	60,072	7.7786696	80,686	7.9068002	17
18	28,149	7.4494578	42,753	7.6309668	60,390	7.7809682	81,056	7.9087829	18
19	0028,367	7.4528163	0043,022	7.6336920	0060,710	7.7832607	0081,426	7.9107610	19
20	28,587	7.4561619	43,292	7.6364086	61,031	7.7855472	81,796	7.9127346	20
21	28,807	7.4594946	43,563	7.6391167	61,352	7.7878276	82,166	7.9147038	21
22	29,028	7.4628146	43,835	7.6418164	61,674	7.7901020	82,541	7.9166644	22
23	29,250	7.4661219	44,107	7.6445078	61,997	7.7923705	82,914	7.9186286	23
24	29,472	7.4694166	44,380	7.6471908	62,321	7.7946331	83,288	7.9205844	24
25	0029,696	7.4726989	0044,655	7.6498655	0062,645	7.7968897	0083,663	7.9225358	25
26	29,920	7.4759688	44,930	7.6525320	62,971	7.7991405	84,039	7.9244827	26
27	30,146	7.4792264	45,205	7.6551903	63,297	7.8013855	84,416	7.9264253	27
28	30,372	7.4824719	45,482	7.6578404	63,625	7.8036246	84,794	7.9283636	28
29	30,599	7.4857052	45,760	7.6604825	63,953	7.8058580	85,172	7.9302975	29
30	30,827	7.4889025	46,037	7.6631166	64,281	7.8080856	85,551	7.9322271	30
31	0031,055	7.4921359	0046,317	7.6657427	0064,611	7.8103175	0085,931	7.9341523	31
32	31,285	7.4953335	46,597	7.6683608	64,942	7.8125337	86,312	7.9360734	32
33	31,515	7.4985193	46,878	7.6709711	65,273	7.8147343	86,694	7.9379901	33
34	31,746	7.5016934	47,160	7.6735735	65,605	7.8169392	87,077	7.9399027	34
35	31,977	7.5048560	47,443	7.6761682	65,938	7.8191386	87,460	7.9418110	35
36	32,211	7.5080071	47,726	7.6787555	66,272	7.8213323	87,845	7.9437151	36
37	0032,445	7.5111468	0048,010	7.6813342	0066,607	7.8235205	0088,230	7.9456150	37
38	32,677	7.5142751	48,295	7.6839058	66,943	7.8257032	88,616	7.9475107	38
39	32,915	7.5173923	48,581	7.6864697	67,279	7.8278804	89,003	7.9494023	39
40	33,151	7.5204982	48,868	7.6890260	67,616	7.8300522	89,390	7.9512898	40
41	33,388	7.5235931	49,156	7.6915749	67,955	7.8322185	89,779	7.9531732	41
42	33,626	7.5266769	49,444	7.6941162	68,294	7.8343794	90,168	7.9550525	42
43	0033,865	7.5297498	0049,734	7.6966502	0068,633	7.8365345	0090,558	7.9569276	43
44	34,105	7.5328119	50,024	7.6991767	68,974	7.8386851	90,949	7.9587988	44
45	34,345	7.5358632	50,315	7.7016959	69,315	7.8408295	91,341	7.9606659	45
46	34,586	7.5389038	50,607	7.7042078	69,658	7.8429695	91,734	7.9625290	46
47	34,828	7.5419338	50,899	7.7067124	70,001	7.8451037	92,127	7.9643880	47
48	35,071	7.5449532	51,193	7.7092098	70,345	7.8472327	92,522	7.9662431	48
49	0035,315	7.5479621	0051,487	7.7117001	0070,690	7.8493565	0092,917	7.9680942	49
50	35,560	7.5509607	51,783	7.7141832	71,035	7.8514751	93,313	7.9699414	50
51	35,805	7.5539489	52,079	7.7166592	71,382	7.8535885	93,710	7.9717846	51
52	36,052	7.5569268	52,375	7.7191281	71,729	7.8556968	94,107	7.9736239	52
53	36,299	7.5598946	52,673	7.7215900	72,078	7.8577995	94,506	7.9754593	53
54	36,547	7.5628522	52,972	7.7240450	72,427	7.8598980	94,905	7.9772908	54
55	0036,790	7.5657998	0053,271	7.7264930	0072,776	7.8619910	0095,306	7.9791184	55
56	37,046	7.5687373	53,572	7.7289341	73,127	7.8640789	95,707	7.9809422	56
57	37,296	7.5716650	53,873	7.7313683	73,479	7.8661618	96,109	7.9827621	57
58	37,548	7.5745828	54,175	7.7337958	73,831	7.8682397	96,511	7.9845782	58
59	37,800	7.5774908	54,477	7.7362164	74,184	7.8703126	96,913	7.9863905	59
60	38,053	7.5803891	54,781	7.7386303	74,538	7.8723806	97,319	7.9881990	60

Min.	8 Deg.		9 Deg.		10 Deg.		11 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	0097,319	7.9881990	0123,117	8.0903166	0151,922	8.1816220	0183,728	8.2641757	0
1	0097,725	7.9900038	0123,572	8.0919203	0152,428	8.1830648	0184,284	8.2654867	1
2	098,131	7.9918047	124,028	8.0935210	152,934	8.1845051	184,840	8.2667957	2
3	098,538	7.9936020	124,486	8.0951188	153,442	8.1859431	185,397	8.2681028	3
4	098,945	7.9953955	124,943	8.0967136	153,950	8.1873786	185,855	8.2694078	4
5	099,354	7.9971853	125,402	8.0983055	154,458	8.1888118	186,314	8.2707109	5
6	099,761	7.9989713	125,862	8.0998944	154,968	8.1902426	186,773	8.2720119	6
7	0100,174	8.0007537	0126,322	8.1014804	0155,479	8.1916710	0187,634	8.2733111	7
8	100,585	8.0025325	126,784	8.1030635	155,990	8.1930971	188,195	8.2746082	8
9	100,997	8.0043076	127,246	8.1046437	156,502	8.1945208	188,757	8.2759035	9
10	101,410	8.0060790	127,709	8.1062211	157,015	8.1959421	189,320	8.2771967	10
11	101,823	8.0078468	128,173	8.1077955	157,529	8.1973611	189,884	8.2784880	11
12	102,238	8.0096110	128,637	8.1093671	158,044	8.1987778	190,448	8.2797774	12
13	0102,653	8.0113716	0129,103	8.1109358	0158,559	8.2001921	0191,014	8.2810649	13
14	103,069	8.0131287	129,569	8.1125017	159,076	8.2016042	191,580	8.2823504	14
15	103,486	8.0148821	130,036	8.1140647	159,593	8.2030139	192,147	8.2836341	15
16	103,904	8.0166321	130,504	8.1156249	160,111	8.2044213	192,715	8.2849158	16
17	104,323	8.0183785	130,973	8.1171823	160,630	8.2058264	193,284	8.2861956	17
18	104,742	8.0201213	131,443	8.1187369	161,150	8.2072293	193,853	8.2874735	18
19	0105,162	8.0218607	0131,913	8.1202887	0161,670	8.2086298	0194,424	8.2887495	19
20	105,584	8.0235965	132,385	8.1218377	162,192	8.2100281	194,995	8.2900216	20
21	106,006	8.0253289	132,857	8.1233840	162,714	8.2114241	195,567	8.2912958	21
22	106,428	8.0270578	133,330	8.1249274	163,237	8.2128179	196,140	8.2925661	22
23	106,852	8.0287833	133,804	8.1264681	163,761	8.2142094	196,714	8.2938346	23
24	107,277	8.0305053	134,278	8.1280061	164,285	8.2155987	197,288	8.2951012	24
25	0107,702	8.0322239	0134,754	8.1295413	0164,811	8.2169857	0197,864	8.2963660	25
26	108,128	8.0339391	135,230	8.1310738	165,337	8.2183705	198,440	8.2976289	26
27	108,555	8.0356508	135,707	8.1326036	165,864	8.2197531	199,017	8.2988899	27
28	108,983	8.0373592	136,185	8.1341307	166,392	8.2211334	199,595	8.3001494	28
29	109,412	8.0390643	136,664	8.1356551	166,921	8.2225116	200,173	8.3014064	29
30	109,841	8.0407659	137,144	8.1371768	167,451	8.2238875	200,753	8.3026619	30
31	0110,272	8.0424642	0137,625	8.1386958	0167,981	8.2252613	0201,333	8.3039156	31
32	110,703	8.0441592	138,106	8.1402121	168,513	8.2266329	201,914	8.3051673	32
33	111,135	8.0458509	138,588	8.1417258	169,045	8.2280023	202,496	8.3064175	33
34	111,568	8.0475393	139,071	8.1432368	169,578	8.2293695	203,079	8.3076657	34
35	112,002	8.0492243	139,555	8.1447452	170,112	8.2307345	203,663	8.3089122	35
36	112,436	8.0509061	140,040	8.1462510	170,647	8.2320974	204,248	8.3101568	36
37	0112,872	8.0525846	0140,525	8.1477541	0171,182	8.2334581	0204,833	8.3113996	37
38	113,308	8.0542599	141,012	8.1492546	171,718	8.2348167	205,419	8.3126406	38
39	113,745	8.0559319	141,509	8.1507525	172,256	8.2361732	206,006	8.3138798	39
40	114,183	8.0576007	141,987	8.1522478	172,794	8.2375275	206,594	8.3151172	40
41	114,622	8.0592663	142,476	8.1537405	173,332	8.2388797	207,182	8.3163538	41
42	115,061	8.0609286	142,965	8.1552307	173,872	8.2402297	207,772	8.3175863	42
43	0115,502	8.0625878	0143,456	8.1567182	0174,413	8.2415777	0208,362	8.3188189	43
44	115,943	8.0642438	143,947	8.1582032	174,954	8.2429235	208,953	8.3200493	44
45	116,385	8.0658966	144,439	8.1596857	175,496	8.2442673	209,545	8.3212779	45
46	116,828	8.0675463	144,932	8.1611656	176,039	8.2456089	210,138	8.3225046	46
47	117,272	8.0691928	145,426	8.1626430	176,583	8.2469485	210,732	8.3237284	47
48	117,716	8.0708362	145,921	8.1641178	177,127	8.2482860	211,326	8.3249532	48
49	0118,162	8.0724764	0146,417	8.1655902	0177,673	8.2496214	0211,921	8.3261784	49
50	118,608	8.0741136	146,913	8.1670600	178,219	8.2509547	212,517	8.3273947	50
51	119,055	8.0757476	147,410	8.1685273	178,766	8.2522860	213,114	8.3286128	51
52	119,503	8.0773786	147,908	8.1699921	179,314	8.2536152	213,712	8.3298222	52
53	119,952	8.0790065	148,407	8.1714545	179,863	8.2549424	214,311	8.3310349	53
54	120,401	8.0806313	148,907	8.1729144	180,413	8.2562675	214,910	8.3322466	54
55	0120,852	8.0822531	0149,407	8.1743718	0180,963	8.2575906	0215,510	8.3334582	55
56	121,303	8.0838738	149,909	8.1758267	181,515	8.2589117	216,111	8.3346788	56
57	121,755	8.0854875	150,411	8.1772792	182,067	8.2602307	216,713	8.3358857	57
58	122,208	8.0871002	150,914	8.1787292	182,620	8.2615477	217,316	8.3370918	58
59	122,662	8.0887099	151,418	8.1801768	183,174	8.2628627	217,920	8.3382963	59
60	123,117	8.0903166	151,922	8.1816220	183,728	8.2641757	218,524	8.3394994	60

Min.	12 Deg.		13 Deg.		14 Deg.		15 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	0218,524	8.3394991	0256,299	8.4087475	0297,043	8.4728189	0340,742	8.5324253	0
1	0219,129	8.3407002	0256,954	8.4098556	0297,747	8.4738472	0341,495	8.5333844	1
2	219,735	8.3418997	257,610	8.4109622	298,452	8.4748742	342,249	8.5343423	2
3	220,342	8.3430975	258,266	8.4120675	299,158	8.4759000	343,004	8.5352992	3
4	220,950	8.3442936	258,923	8.4131713	299,864	8.4769246	343,760	8.5362551	4
5	221,558	8.3454880	259,581	8.4142736	300,572	8.4779490	344,516	8.5372098	5
6	222,168	8.3466829	260,240	8.4153746	301,280	8.4789701	345,274	8.5381635	6
7	0222,778	8.3478719	0260,900	8.4164741	0301,989	8.4799910	0346,032	8.5391161	7
8	223,389	8.3490614	261,561	8.4175723	302,699	8.4810107	346,791	8.5400677	8
9	224,001	8.3502492	262,222	8.4186690	303,409	8.4820291	347,551	8.5410182	9
10	224,613	8.3514354	262,884	8.4197644	304,121	8.4830464	348,311	8.5419676	10
11	225,227	8.3526200	263,547	8.4208583	304,833	8.4840625	349,073	8.5429160	11
12	225,841	8.3538029	264,211	8.4219508	305,547	8.4850773	349,835	8.5438633	12
13	0226,456	8.3549842	0264,876	8.4230420	0306,260	8.4860910	0350,598	8.5448096	13
14	227,072	8.3561639	265,541	8.4241318	306,975	8.4871034	351,362	8.5457548	14
15	227,689	8.3573419	266,207	8.4252201	307,691	8.4881147	352,127	8.5466990	15
16	228,307	8.3585184	266,875	8.4263072	308,407	8.4891247	352,892	8.5476422	16
17	228,925	8.3596932	267,542	8.4273928	309,125	8.4901330	353,659	8.5485843	17
18	229,544	8.3608664	268,211	8.4284770	309,843	8.4911412	354,426	8.5495253	18
19	0230,164	8.3620331	0268,881	8.4295599	0310,562	8.4921477	0355,194	8.5504654	19
20	230,785	8.3632081	269,551	8.4306414	311,281	8.4931530	355,963	8.5514044	20
21	231,407	8.3643765	270,222	8.4317216	312,002	8.4941572	356,732	8.5523423	21
22	232,030	8.3655436	270,895	8.4328004	312,723	8.4951601	357,503	8.5532793	22
23	232,653	8.3667086	271,568	8.4338778	313,445	8.4961619	358,274	8.5542152	23
24	233,277	8.3678723	272,241	8.4349539	314,168	8.4971625	359,046	8.5551500	24
25	0233,902	8.3690344	0272,916	8.4360286	0314,892	8.4981619	0359,819	8.5560839	25
26	234,528	8.3701950	273,591	8.4371020	315,617	8.4991602	360,593	8.5570167	26
27	235,155	8.3713539	274,267	8.4381740	316,342	8.5001573	361,367	8.5579485	27
28	235,782	8.3725114	274,944	8.4392447	317,069	8.5011532	362,142	8.5588793	28
29	236,411	8.3736687	275,622	8.4403141	317,796	8.5021480	362,919	8.5598091	29
30	237,040	8.3748215	276,301	8.4413821	318,524	8.5031416	363,695	8.5607379	30
31	0237,670	8.3759743	0276,980	8.4424488	0319,252	8.5041341	0364,473	8.5616656	31
32	238,301	8.3771255	277,661	8.4435142	319,982	8.5051254	365,252	8.5625924	32
33	238,932	8.3782751	278,342	8.4445783	320,712	8.5061156	366,031	8.5635181	33
34	239,565	8.3794232	279,024	8.4456410	321,443	8.5071046	366,811	8.5644429	34
35	240,198	8.3805698	279,706	8.4467024	322,175	8.5080925	367,592	8.5653666	35
36	240,832	8.3817149	280,390	8.4477625	322,908	8.5090792	368,374	8.5662894	36
37	0241,467	8.3828584	0281,074	8.4488213	0323,642	8.5100648	0369,157	8.5672111	37
38	242,103	8.3840004	281,760	8.4498788	324,376	8.5110493	369,940	8.5681318	38
39	242,740	8.3851409	282,446	8.4509350	325,112	8.5120326	370,725	8.5690516	39
40	243,377	8.3862799	283,133	8.4519898	325,848	8.5130148	371,510	8.5699704	40
41	244,015	8.3874174	283,820	8.4530434	326,585	8.5139959	372,296	8.5708881	41
42	244,655	8.3885533	284,509	8.4540957	327,322	8.5149758	373,083	8.5718049	42
43	0245,294	8.3896878	0285,198	8.4551467	0328,061	8.5159546	0373,870	8.5727207	43
44	245,935	8.3908207	285,888	8.4561964	328,800	8.5169324	374,658	8.5736355	44
45	246,577	8.3919522	286,579	8.4572448	329,541	8.5179089	375,448	8.5745494	45
46	247,219	8.3930822	287,272	8.4582920	330,282	8.5188844	376,238	8.5754622	46
47	247,862	8.3942107	287,964	8.4593378	331,023	8.5198588	377,028	8.5763741	47
48	248,506	8.3953377	288,657	8.4603824	331,766	8.5208320	377,820	8.5772850	48
49	0249,151	8.3964632	0289,351	8.4614257	0332,510	8.5218042	0378,613	8.5781950	49
50	249,797	8.3975873	290,047	8.4624677	333,254	8.5227752	379,406	8.5791039	50
51	250,444	8.3987098	290,742	8.4635085	333,999	8.5237451	380,200	8.5800119	51
52	251,091	8.3998310	291,439	8.4645480	334,745	8.5247140	380,995	8.5809189	52
53	251,739	8.4009506	292,137	8.4655863	335,492	8.5256817	381,790	8.5818250	53
54	252,388	8.4020688	292,835	8.4666233	336,239	8.5266484	382,587	8.5827301	54
55	0253,038	8.4031855	0293,534	8.4676590	0336,988	8.5276139	0383,384	8.5836342	55
56	253,689	8.4043108	294,234	8.4686935	337,737	8.5285784	384,182	8.5845374	56
57	254,340	8.4054347	294,935	8.4697267	338,487	8.5295417	384,981	8.5854396	57
58	254,992	8.40655270	295,637	8.4707587	339,238	8.5305040	385,781	8.5863409	58
59	255,645	8.4076730	296,339	8.4717894	339,989	8.5314652	386,582	8.5872412	59
60	256,299	8.4087943	297,043	8.4728189	340,742	8.5324253	387,383	8.5881406	60

Min.	16 Deg.		17 Deg.		18 Deg.		19 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. line	L. Ver. line	N.V. line	L. Ver. line	
0	387,383	8.5881406	436,952	8.6404342	489,435	8.6896949	544,814	8.7362485	0
1	388,185	8.5890390	437,803	8.6412791	490,334	8.6904921	545,762	8.7370030	1
2	388,988	8.5899365	438,655	8.6421231	491,234	8.6912886	546,710	8.7377570	2
3	389,792	8.5908330	439,508	8.6429663	492,135	8.6920844	547,659	8.7385102	3
4	390,597	8.5917286	440,361	8.6438087	493,037	8.6928794	548,609	8.7392628	4
5	391,402	8.5926233	441,213	8.6446502	493,939	8.6936736	549,559	8.7400147	5
6	392,208	8.5935170	442,070	8.6454909	494,843	8.6944672	550,511	8.7407659	6
7	393,016	8.5944097	442,926	8.6463308	495,747	8.6952599	551,463	8.7415165	7
8	393,823	8.5953016	443,782	8.6471698	496,652	8.6960520	552,416	8.7422664	8
9	394,632	8.5961925	444,639	8.6480080	497,557	8.6968432	553,370	8.7430156	9
10	395,442	8.5970824	445,494	8.6488454	498,464	8.6976338	554,325	8.7437642	10
11	396,252	8.5979715	446,357	8.6496820	499,371	8.6984236	555,280	8.7445121	11
12	397,063	8.5988596	447,216	8.6505177	500,279	8.6992127	556,236	8.7452593	12
13	397,875	8.5997468	448,077	8.6513526	501,188	8.7000010	557,193	8.7460059	13
14	398,688	8.6006330	448,938	8.6521867	502,098	8.7007886	558,151	8.7467518	14
15	399,501	8.6015184	449,801	8.6530200	503,009	8.7015755	559,110	8.7474971	15
16	400,316	8.6024028	450,664	8.6538524	503,920	8.7023617	560,069	8.7482417	16
17	401,131	8.6032863	451,527	8.6546841	504,832	8.7031471	561,029	8.7489857	17
18	401,947	8.6041689	452,392	8.6555149	505,745	8.7039318	561,990	8.7497290	18
19	402,764	8.6050506	453,257	8.6563449	506,659	8.7047158	562,952	8.7504716	19
20	403,582	8.6059313	454,124	8.6571741	507,574	8.7054990	563,915	8.7512136	20
21	404,400	8.6068112	454,991	8.6580025	508,489	8.7062815	564,878	8.7519549	21
22	405,219	8.6076901	455,859	8.6588301	509,405	8.7070633	565,843	8.7526956	22
23	406,039	8.6085681	456,727	8.6596569	510,322	8.7078444	566,808	8.7534357	23
24	406,860	8.6094453	457,597	8.6604829	511,240	8.7086247	567,773	8.7541751	24
25	407,682	8.6103215	458,467	8.6613081	512,158	8.7094044	568,740	8.7549138	25
26	408,504	8.6111968	459,338	8.6621324	513,078	8.7101833	569,707	8.7556519	26
27	409,328	8.6120712	460,210	8.6629560	513,998	8.7109615	570,676	8.7563894	27
28	410,152	8.6129448	461,083	8.6637788	514,919	8.7117390	571,645	8.7571262	28
29	410,977	8.6138174	461,956	8.6646008	515,841	8.7125157	572,614	8.7578623	29
30	411,803	8.6146891	462,830	8.6654220	516,763	8.7132918	573,585	8.7585979	30
31	412,629	8.6155600	463,706	8.6662424	517,687	8.7140671	574,556	8.7593327	31
32	413,457	8.6164299	464,582	8.6670620	518,611	8.7148418	575,529	8.7600670	32
33	414,285	8.6172990	465,458	8.6678808	519,536	8.7156157	576,502	8.7608003	33
34	415,114	8.6181672	466,336	8.6686988	520,462	8.7163889	577,475	8.7615336	34
35	415,944	8.6190345	467,214	8.6695160	521,388	8.7171614	578,450	8.7622659	35
36	416,774	8.6199009	468,093	8.6703324	522,316	8.7179332	579,423	8.7629976	36
37	417,606	8.6207664	468,973	8.6711481	523,244	8.7187044	580,402	8.7637286	37
38	418,438	8.6216311	469,854	8.6719630	524,173	8.7194748	581,379	8.7644581	38
39	419,271	8.6224948	470,736	8.6727771	525,103	8.7202445	582,356	8.7651889	39
40	420,105	8.6233577	471,618	8.6735904	526,034	8.7210135	583,335	8.7659186	40
41	420,940	8.6242197	472,501	8.6744029	526,965	8.7217818	584,314	8.7666466	41
42	421,775	8.6250809	473,383	8.6752147	527,897	8.7225494	585,295	8.7673745	42
43	422,611	8.6259412	474,270	8.6760256	528,830	8.7233163	586,276	8.7681018	43
44	423,448	8.6268006	475,156	8.6768358	529,764	8.7240825	587,257	8.7688284	44
45	424,286	8.6276591	476,042	8.6776453	530,699	8.7248480	588,244	8.7695544	45
46	425,125	8.6285168	476,929	8.6784539	531,634	8.7256129	589,223	8.7702798	46
47	425,965	8.6293736	477,817	8.6792618	532,570	8.7263770	590,207	8.7710046	47
48	426,805	8.6302295	478,706	8.6800689	533,507	8.7271404	591,192	8.7717288	48
49	427,646	8.6310846	479,596	8.6808753	534,445	8.7279032	592,178	8.7724523	49
50	428,488	8.6319388	480,486	8.6816809	535,384	8.7286653	593,165	8.7731752	50
51	429,331	8.6327922	481,377	8.6824857	536,323	8.7294267	594,152	8.7738975	51
52	430,175	8.6336447	482,269	8.6832897	537,264	8.7301874	595,140	8.7746192	52
53	431,019	8.6344964	483,162	8.6840930	538,205	8.7309474	596,129	8.7753403	53
54	431,864	8.6353472	484,056	8.6848956	539,146	8.7317067	597,119	8.7760607	54
55	432,710	8.6361971	484,950	8.6856973	540,089	8.7324654	598,108	8.7767805	55
56	433,557	8.6370462	485,846	8.6864984	541,032	8.7332233	599,091	8.7774997	56
57	434,405	8.6378945	486,742	8.6872986	541,977	8.7339800	600,093	8.7782183	57
58	435,253	8.6387419	487,639	8.6880981	542,922	8.7347373	601,086	8.7789363	58
59	436,102	8.6395884	488,536	8.6888969	543,868	8.7354932	602,079	8.7796537	59
60	436,952	8.6404342	489,435	8.6896949	544,814	8.7362485	603,074	8.7803705	60

Min.	20 Deg.		21 Deg.		22 Deg.		23 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	0603,074	8.7803705	0664,196	8.8222961	0728,161	8.8622277	0794,951	8.9003406	0
1	0604,069	8.7810866	0665,235	8.8229774	0729,252	8.8628774	0795,088	8.9006163	1
2	0605,065	8.7818022	0666,282	8.8236582	730,342	8.8633265	797,226	8.9015816	2
3	0606,062	8.7825171	0667,327	8.8243385	731,434	8.8641752	798,365	8.9022013	3
4	0607,060	8.7832314	0668,372	8.8250182	732,526	8.8648233	799,504	8.9028207	4
5	0608,058	8.7839452	0669,418	8.8256973	733,620	8.8654710	800,644	8.9034395	5
6	0609,057	8.7846583	0670,465	8.8263759	734,714	8.8661181	801,783	8.9040579	6
7	0610,058	8.7853708	0671,512	8.8270539	0735,808	8.8667648	0802,927	8.9046759	7
8	0611,058	8.7860827	0672,561	8.8277314	736,904	8.8674109	804,069	8.9052934	8
9	0612,060	8.7867940	0673,610	8.8284083	738,000	8.8680566	805,212	8.9059104	9
10	0613,062	8.7875047	0674,660	8.8290848	739,098	8.8687018	806,356	8.9065270	10
11	0614,066	8.7882149	0675,710	8.8297606	740,195	8.8693464	807,501	8.9071431	11
12	0615,070	8.7889244	0676,762	8.8304360	741,294	8.8699960	808,647	8.9077588	12
13	0616,075	8.7896333	0677,814	8.8311107	0742,394	8.8706342	0809,793	8.9083740	13
14	0617,080	8.7903416	0678,867	8.8317850	743,494	8.8712774	810,940	8.9089887	14
15	0618,087	8.7910494	0679,921	8.8324587	744,595	8.8719201	812,088	8.9096035	15
16	0619,094	8.7917565	0680,976	8.8331318	745,697	8.8725623	813,237	8.9102169	16
17	0620,102	8.7924630	0682,031	8.8338044	746,799	8.8732040	814,386	8.9108303	17
18	0621,111	8.7931690	0683,088	8.8344765	747,903	8.8738452	815,536	8.9114432	18
19	0622,120	8.7938743	0684,145	8.8351480	0749,007	8.8744859	0816,687	8.9120557	19
20	0623,131	8.7945791	0685,203	8.8358190	750,112	8.8751261	817,839	8.9126678	20
21	0624,142	8.7952833	0686,261	8.8364895	751,218	8.8757651	818,991	8.9132794	21
22	0625,154	8.7959869	0687,321	8.8371594	752,324	8.8764058	820,145	8.9138905	22
23	0626,167	8.7966899	0688,381	8.8378288	753,432	8.8770438	821,299	8.9145012	23
24	0627,180	8.7973923	0689,442	8.8384976	754,540	8.8776821	822,454	8.9151115	24
25	0628,194	8.7980941	0690,504	8.8391660	0755,649	8.8783198	0823,609	8.9157213	25
26	0629,210	8.7987953	0691,566	8.8398337	756,758	8.8789571	824,766	8.9163366	26
27	0630,226	8.7994960	0692,630	8.8405010	757,869	8.8795939	825,923	8.9169390	27
28	0631,242	8.8001961	0693,694	8.8411677	758,980	8.8802303	827,081	8.9175480	28
29	0632,260	8.8008956	0694,759	8.8418339	760,092	8.8808661	828,240	8.9181561	29
30	0633,278	8.8015945	0695,824	8.8424996	761,205	8.8815014	829,399	8.9187636	30
31	0634,297	8.8022928	0696,891	8.8431647	0762,318	8.8821363	0830,560	8.9193708	31
32	0635,317	8.8029906	0697,958	8.8438294	763,433	8.8827707	831,721	8.9199775	32
33	0636,338	8.8036877	0699,026	8.8444934	764,548	8.8834046	832,882	8.9205837	33
34	0637,359	8.8043843	700,095	8.8451570	765,664	8.8840380	834,045	8.9211895	34
35	0638,382	8.8050803	701,165	8.8458200	766,780	8.8846710	835,209	8.9217949	35
36	0639,405	8.8057758	702,235	8.8464826	767,898	8.8853034	836,373	8.9223995	36
37	0640,429	8.8064707	0703,306	8.8471445	0769,016	8.8859354	0837,538	8.9230043	37
38	0641,453	8.8071649	704,378	8.8478060	770,135	8.8865669	838,703	8.9236084	38
39	0642,479	8.8078587	705,451	8.8484670	771,255	8.8871980	839,870	8.9242120	39
40	0643,505	8.8085518	706,525	8.8491274	772,376	8.8878285	841,037	8.9248152	40
41	0644,532	8.8092444	707,599	8.8497873	773,497	8.8884586	842,205	8.9254179	41
42	0645,560	8.8099364	708,674	8.8504467	774,619	8.8890886	843,374	8.9260202	42
43	0646,588	8.8106278	0709,750	8.8511055	0775,742	8.8897173	0844,544	8.9266221	43
44	0647,618	8.8113187	710,827	8.8517639	776,866	8.8903460	845,714	8.9272235	44
45	0648,648	8.8120090	711,904	8.8524217	777,990	8.8909742	846,885	8.9278245	45
46	0649,679	8.8126988	712,983	8.8530790	779,116	8.8916019	848,057	8.9284251	46
47	0650,711	8.8133879	714,062	8.8537358	780,242	8.8922291	849,230	8.9290252	47
48	0651,743	8.8140765	715,142	8.8543921	781,368	8.8928559	850,403	8.9296249	48
49	0652,777	8.8147646	0716,222	8.8550479	0782,456	8.8934822	0851,578	8.9302242	49
50	0653,811	8.8154521	717,304	8.8557032	783,625	8.8941080	852,753	8.9308231	50
51	0654,846	8.8161390	718,386	8.8563579	784,754	8.8947334	853,928	8.9314215	51
52	0655,881	8.8168253	719,469	8.8570121	785,884	8.8953583	855,105	8.9320194	52
53	0656,918	8.8175111	720,553	8.8576659	787,014	8.8959827	856,282	8.9326170	53
54	0657,955	8.8181964	721,637	8.8583191	788,146	8.8966066	857,460	8.9332141	54
55	0658,993	8.8188810	0722,723	8.8589718	0789,278	8.8972301	0858,639	8.9338108	55
56	0660,032	8.8195652	723,809	8.8596240	790,411	8.8978532	859,819	8.9344070	56
57	0661,072	8.8202487	724,896	8.8602757	791,545	8.8984757	860,999	8.9350025	57
58	0662,112	8.8209317	725,984	8.8609268	792,680	8.8990978	862,181	8.9355983	58
59	0663,154	8.8216142	727,072	8.8615775	793,815	8.8997194	863,363	8.9361933	59
60	0664,196	8.8222961	728,161	8.8622277	794,951	8.9003406	864,545	8.9367878	60

Min	24 Deg.		25 Deg.		26 Deg.		27 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	864,545	8.9367878	936,922	8.9717035	1012,060	9.0052061	1089,935	9.0374005	0
1	865,729	8.9373819	938,152	8.9722731	1013,335	9.0057531	1091,256	9.0379265	1
2	866,913	8.9379756	939,382	8.9728424	1014,611	9.0062997	1092,577	9.0384521	2
3	868,098	8.9385689	940,614	8.9734113	1015,888	9.0068460	1093,900	9.0389776	3
4	869,284	8.9391618	941,846	8.9739797	1017,166	9.0073920	1095,223	9.0395032	4
5	870,471	8.9397542	943,078	8.9745478	1018,445	9.0079375	1096,547	9.0400273	5
6	871,658	8.9403462	944,312	8.9751155	1019,724	9.0084827	1097,872	9.0405517	6
7	872,846	8.9409378	945,546	8.9756828	1021,004	9.0090276	1099,197	9.0410757	7
8	874,035	8.9415290	946,781	8.9762497	1022,285	9.0095721	1100,524	9.0415994	8
9	875,225	8.9421197	948,017	8.9768163	1023,567	9.0101162	1101,851	9.0421228	9
10	876,416	8.9427101	949,254	8.9773824	1024,849	9.0106600	1103,178	9.0426458	10
11	877,607	8.9433000	950,491	8.9779482	1026,132	9.0112034	1104,507	9.0431685	11
12	878,799	8.9438895	951,729	8.9785135	1027,416	9.0117465	1105,836	9.0436908	12
13	879,992	8.9444785	952,968	8.9790785	1028,701	9.0122892	1107,166	9.0442129	13
14	881,185	8.9450672	954,208	8.9796431	1029,986	9.0128315	1108,497	9.0447345	14
15	882,380	8.9456554	955,449	8.9802073	1031,273	9.0133735	1109,829	9.0452559	15
16	883,575	8.9462433	956,690	8.9807711	1032,560	9.0139151	1111,161	9.0457769	16
17	884,771	8.9468307	957,932	8.9813346	1033,847	9.0144564	1112,494	9.0462976	17
18	885,967	8.9474177	959,175	8.9818976	1035,136	9.0149973	1113,828	9.0468180	18
19	887,165	8.9480042	960,418	8.9824603	1036,425	9.0155378	1115,162	9.0473380	19
20	888,363	8.9485904	961,662	8.9830226	1037,715	9.0160781	1116,497	9.0478578	20
21	889,562	8.9491761	962,907	8.9835845	1039,006	9.0166179	1117,834	9.0483771	21
22	890,762	8.9497615	964,153	8.9841460	1040,297	9.0171574	1119,170	9.0488962	22
23	891,962	8.9503464	965,400	8.9847072	1041,589	9.0176965	1120,508	9.0494149	23
24	893,163	8.9509309	966,647	8.9852679	1042,882	9.0182353	1121,846	9.0499333	24
25	894,365	8.9515150	967,895	8.9858283	1044,176	9.0187738	1123,185	9.0504514	25
26	895,568	8.9520987	969,144	8.9863885	1045,471	9.0193119	1124,525	9.0509691	26
27	896,772	8.9526820	970,394	8.9869480	1046,766	9.0198496	1125,866	9.0514865	27
28	897,976	8.9532648	971,644	8.9875072	1048,062	9.0203870	1127,207	9.0520036	28
29	899,181	8.9538473	972,895	8.9880661	1049,359	9.0209244	1128,549	9.0525202	29
30	900,387	8.9544294	974,147	8.9886246	1050,656	9.0214607	1129,892	9.0530368	30
31	901,594	8.9550110	975,400	8.9891827	1051,955	9.0219970	1131,235	9.0535529	31
32	902,801	8.9555922	976,653	8.9897404	1053,254	9.0225330	1132,580	9.0540687	32
33	904,010	8.9561731	977,908	8.9902978	1054,554	9.0230687	1133,925	9.0545842	33
34	905,219	8.9567535	979,162	8.9908548	1055,854	9.0236039	1135,270	9.0550993	34
35	906,428	8.9573335	980,418	8.9914114	1057,156	9.0241389	1136,617	9.0556141	35
36	907,639	8.9579131	981,675	8.9919676	1058,458	9.0246735	1137,964	9.0561286	36
37	908,850	8.9584923	982,932	8.9925235	1059,760	9.0252077	1139,312	9.0566428	37
38	910,062	8.9590711	984,190	8.9930790	1061,064	9.0257416	1140,661	9.0571566	38
39	911,275	8.9596495	985,449	8.9936341	1062,368	9.0262752	1142,011	9.0576701	39
40	912,489	8.9602275	986,708	8.9941888	1063,674	9.0268084	1143,361	9.0581833	40
41	913,703	8.9608051	987,969	8.9947432	1064,979	9.0273412	1144,712	9.0586962	41
42	914,918	8.9613823	989,230	8.9952972	1066,286	9.0278738	1146,064	9.0592088	42
43	916,134	8.9619591	990,492	8.9958508	1067,594	9.0284059	1147,416	9.0597210	43
44	917,351	8.9625355	991,754	8.9964041	1068,902	9.0289378	1148,770	9.0602329	44
45	918,568	8.9631114	993,018	8.9969569	1070,211	9.0294692	1150,124	9.0607445	45
46	919,786	8.9636870	994,282	8.9975095	1071,520	9.0300004	1151,478	9.0612558	46
47	921,005	8.9642622	995,547	8.9980616	1072,831	9.0305312	1152,834	9.0617668	47
48	922,225	8.9648370	996,812	8.9986134	1074,142	9.0310616	1154,180	9.0622774	48
49	923,446	8.9654114	998,075	8.9991648	1075,454	9.0315917	1155,547	9.0627877	49
50	924,667	8.9659854	999,340	8.9997158	1076,766	9.0321215	1156,905	9.0632977	50
51	925,889	8.9665590	1000,614	9.0002665	1078,080	9.0326509	1158,264	9.0638074	51
52	927,112	8.9671322	1001,883	9.0008168	1079,394	9.0331800	1159,623	9.0643161	52
53	928,335	8.9677050	1003,152	9.0013667	1080,705	9.0337088	1160,983	9.0648258	53
54	929,560	8.9682774	1004,422	9.0019163	1082,025	9.0342372	1162,344	9.0653346	54
55	930,785	8.9688494	1005,693	9.0024655	1083,341	9.0347652	1163,705	9.0658430	55
56	932,011	8.9694210	1006,965	9.0030144	1084,658	9.0352930	1165,067	9.0663511	56
57	933,238	8.9699922	1008,237	9.0035628	1085,976	9.0358204	1166,431	9.0668589	57
58	934,465	8.9705630	1009,511	9.0041105	1087,295	9.0363474	1167,794	9.0673663	58
59	935,693	8.9711335	1010,785	9.0046587	1088,615	9.0368741	1169,155	9.0678735	59
60	936,922	8.9717035	1012,060	9.0052061	1089,935	9.0374005	1170,524	9.0683803	60

Min	28 Deg.		29 Deg.		30 Deg.		31 Deg.		Min
	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	
0	1170,524	9.0683803	1253,803	9.0982293	1339,746	9.1270225	1428,327	9.1548276	0
1	1171,890	9.0688869	1255,214	9.0987176	1341,201	9.1274938	1429,826	9.1552831	1
2	1173,257	9.0693931	1256,625	9.0992057	1342,656	9.1279649	1431,325	9.1557382	2
3	1174,624	9.0698990	1258,037	9.0996934	1344,113	9.1284350	1432,825	9.1561931	3
4	1175,993	9.0704046	1259,450	9.1001809	1345,570	9.1289062	1434,326	9.1566477	4
5	1177,362	9.0709099	1260,863	9.1006681	1347,027	9.1293764	1435,827	9.1571021	5
6	1178,731	9.0714148	1262,278	9.1011549	1348,486	9.1298464	1437,329	9.1575562	6
7	1180,102	9.0719195	1263,693	9.1016415	1349,945	9.1303161	1438,832	9.1580101	7
8	1181,473	9.0724238	1265,109	9.1021278	1351,405	9.1307855	1440,336	9.1584637	8
9	1182,845	9.0729279	1266,525	9.1026138	1352,866	9.1312547	1441,840	9.1589171	9
10	1184,218	9.0734316	1267,942	9.1030995	1354,327	9.1317235	1443,345	9.1593702	10
11	1185,591	9.0739350	1269,360	9.1035850	1355,789	9.1321921	1444,851	9.1598236	11
12	1186,965	9.0744381	1270,779	9.1040701	1357,252	9.1326605	1446,357	9.1602756	12
13	1188,340	9.0749409	1272,199	9.1045550	1358,716	9.1331286	1447,865	9.1607280	13
14	1189,716	9.0754434	1273,619	9.1050395	1360,180	9.1335964	1449,373	9.1611800	14
15	1191,093	9.0759455	1275,040	9.1055238	1361,645	9.1340639	1450,881	9.1616319	15
16	1192,470	9.0764474	1276,462	9.1060078	1363,111	9.1345311	1452,391	9.1620835	16
17	1193,848	9.0769490	1277,884	9.1064915	1364,577	9.1349981	1453,901	9.1625348	17
18	1195,226	9.0774502	1279,307	9.1069749	1366,044	9.1354648	1455,412	9.1629859	18
19	1196,606	9.0779511	1280,731	9.1074580	1367,512	9.1359313	1456,923	9.1634367	19
20	1197,986	9.0784518	1282,156	9.1079408	1368,981	9.1363975	1458,436	9.1638873	20
21	1199,367	9.0789521	1283,581	9.1084234	1370,451	9.1368634	1459,949	9.1643376	21
22	1200,749	9.0794521	1285,007	9.1089056	1371,921	9.1373290	1461,462	9.1647876	22
23	1202,131	9.0799518	1286,434	9.1093876	1373,392	9.1377944	1462,977	9.1652374	23
24	1203,514	9.0804512	1287,862	9.1098693	1374,863	9.1382595	1464,492	9.1656870	24
25	1204,898	9.0809503	1289,290	9.1103507	1376,336	9.1387244	1466,008	9.1661363	25
26	1206,283	9.0814491	1290,719	9.1108318	1377,809	9.1391889	1467,525	9.1665854	26
27	1207,668	9.0819476	1292,149	9.1113126	1379,283	9.1396532	1469,042	9.1670342	27
28	1209,054	9.0824458	1293,580	9.1117932	1380,757	9.1401173	1470,560	9.1674828	28
29	1210,441	9.0829437	1295,011	9.1122735	1382,232	9.1405811	1472,079	9.1679311	29
30	1211,829	9.0834413	1296,443	9.1127534	1383,708	9.1410446	1473,598	9.1683791	30
31	1213,217	9.0839386	1297,876	9.1132331	1385,185	9.1415078	1475,119	9.1688269	31
32	1214,606	9.0844356	1299,309	9.1137126	1386,663	9.1419708	1476,640	9.1692745	32
33	1215,996	9.0849322	1300,744	9.1141917	1388,141	9.1424335	1478,161	9.1697218	33
34	1217,387	9.0854286	1302,179	9.1146705	1389,620	9.1428960	1479,684	9.1701689	34
35	1218,778	9.0859247	1303,614	9.1151491	1391,099	9.1433581	1481,207	9.1706157	35
36	1220,170	9.0864204	1305,051	9.1156274	1392,580	9.1438201	1482,731	9.1710623	36
37	1221,563	9.0869159	1306,488	9.1161054	1394,061	9.1442817	1484,255	9.1715086	37
38	1222,957	9.0874111	1307,926	9.1165831	1395,543	9.1447431	1485,781	9.1719547	38
39	1224,351	9.0879059	1309,364	9.1170606	1397,025	9.1452042	1487,307	9.1724005	39
40	1225,746	9.0884005	1310,804	9.1175377	1398,509	9.1456651	1488,833	9.1728461	40
41	1227,142	9.0888948	1312,244	9.1180146	1399,993	9.1461257	1490,361	9.1732914	41
42	1228,538	9.0893887	1313,685	9.1184912	1401,477	9.1465861	1491,889	9.1737365	42
43	1229,936	9.0898824	1315,126	9.1189675	1402,963	9.1470461	1493,418	9.1741813	43
44	1231,334	9.0903758	1316,569	9.1194436	1404,449	9.1475060	1494,947	9.1746259	44
45	1232,732	9.0908688	1318,012	9.1199193	1405,936	9.1479655	1496,478	9.1750703	45
46	1234,132	9.0913616	1319,456	9.1203948	1407,424	9.1484248	1498,009	9.1755144	46
47	1235,532	9.0918541	1320,900	9.1208700	1408,912	9.1488838	1499,541	9.1759582	47
48	1236,933	9.0923462	1322,345	9.1213449	1410,401	9.1493426	1501,073	9.1764018	48
49	1238,335	9.0928381	1323,791	9.1218196	1411,891	9.1498011	1502,606	9.1768452	49
50	1239,737	9.0933297	1325,238	9.1222939	1413,381	9.1502594	1504,140	9.1772883	50
51	1241,141	9.0938210	1326,686	9.1227680	1414,873	9.1507174	1505,675	9.1777312	51
52	1242,545	9.0943120	1328,134	9.1232419	1416,365	9.1511751	1507,210	9.1781738	52
53	1243,949	9.0948027	1329,583	9.1237154	1417,857	9.1516326	1508,746	9.1786162	53
54	1245,355	9.0952931	1331,033	9.1241887	1419,351	9.1520898	1510,283	9.1790584	54
55	1246,761	9.0957832	1332,483	9.1246617	1420,845	9.1525467	1511,821	9.1795003	55
56	1248,168	9.0962730	1333,934	9.1251344	1422,340	9.1530034	1513,355	9.1799419	56
57	1249,575	9.0967625	1335,386	9.1256068	1423,836	9.1534599	1514,898	9.1803833	57
58	1250,984	9.0972517	1336,839	9.1260790	1425,332	9.1539161	1516,438	9.1808245	58
59	1252,393	9.0977406	1338,292	9.1265508	1426,829	9.1543720	1517,978	9.1812655	59
60	1253,803	9.0982293	1339,746	9.1270225	1428,327	9.1548276	1519,519	9.1817061	60

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Min.	36 Deg.		37 Deg.		38 Deg.		39 Deg.		Min.
	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	
0	1909,830	9.2809947	2013,645	9.3039829	2119,892	9.3263138	2228,544	9.3482053	0
1	1911,540	9.2813834	2015,396	9.3043604	2121,684	9.3266806	2230,371	9.3483774	1
2	1913,251	9.2817720	2017,147	9.3047376	2123,476	9.3270473	2232,203	9.3485497	2
3	1914,963	9.2821603	2018,900	9.3051148	2125,268	9.3274137	2234,035	9.3487221	3
4	1916,675	9.2825484	2020,653	9.3054917	2127,061	9.3277800	2235,868	9.3488944	4
5	1918,388	9.2829364	2022,406	9.3058684	2128,855	9.3281461	2237,702	9.3490668	5
6	1920,101	9.2833241	2024,161	9.3062450	2130,650	9.3285121	2239,536	9.3501580	6
7	1921,815	9.2837117	2025,916	9.3066214	2132,445	9.3288778	2241,371	9.3505137	7
8	1923,530	9.2840990	2027,671	9.3069976	2134,241	9.3292434	2243,206	9.3508692	8
9	1925,246	9.2844862	2029,428	9.3073736	2136,037	9.3296089	2245,043	9.3512246	9
10	1926,962	9.2848732	2031,185	9.3077494	2137,835	9.3299741	2246,879	9.3515798	10
11	1928,679	9.2852600	2032,942	9.3081251	2139,633	9.3303392	2248,717	9.3519347	11
12	1930,397	9.2856466	2034,701	9.3085006	2141,431	9.3307041	2250,555	9.3522897	12
13	1932,115	9.2860330	2036,460	9.3088759	2143,230	9.3310688	2252,394	9.3526444	13
14	1933,834	9.2864192	2038,220	9.3092510	2145,030	9.3314334	2254,233	9.3529989	14
15	1935,554	9.2868053	2039,980	9.3096259	2146,831	9.3317978	2256,074	9.3533535	15
16	1937,274	9.2871911	2041,741	9.3100007	2148,632	9.3321620	2257,914	9.3537075	16
17	1938,995	9.2875768	2043,503	9.3103752	2150,434	9.3325261	2259,756	9.3540615	17
18	1940,717	9.2879622	2045,265	9.3107496	2152,236	9.3328900	2261,598	9.3544154	18
19	1942,440	9.2883475	2047,028	9.3111238	2154,039	9.3332537	2263,441	9.3547691	19
20	1944,163	9.2887326	2048,792	9.3114979	2155,843	9.3336172	2265,284	9.3551227	20
21	1945,887	9.2891175	2050,556	9.3118717	2157,648	9.3339806	2267,128	9.3554761	21
22	1947,611	9.2895022	2052,322	9.3122454	2159,453	9.3343438	2268,973	9.3558293	22
23	1949,336	9.2898867	2054,087	9.3126189	2161,259	9.3347068	2270,818	9.3561824	23
24	1951,062	9.2902711	2055,854	9.3129922	2163,065	9.3350697	2272,664	9.3565353	24
25	1952,789	9.2906552	2057,621	9.3133654	2164,873	9.3354323	2274,511	9.3568880	25
26	1954,516	9.2910392	2059,389	9.3137383	2166,680	9.3357945	2276,358	9.3572406	26
27	1956,244	9.2914229	2061,157	9.3141111	2168,489	9.3361572	2278,206	9.3575930	27
28	1957,972	9.2918065	2062,926	9.3144837	2170,298	9.3365194	2280,055	9.3579453	28
29	1959,701	9.2921899	2064,696	9.3148561	2172,108	9.3368814	2281,904	9.3582974	29
30	1961,431	9.2925731	2066,467	9.3152284	2173,918	9.3372432	2283,754	9.3586494	30
31	1963,162	9.2929561	2068,238	9.3156005	2175,730	9.3376045	2285,605	9.3590011	31
32	1964,893	9.2933390	2070,010	9.3159724	2177,541	9.3379664	2287,456	9.3593528	32
33	1966,625	9.2937216	2071,782	9.3163441	2179,354	9.3383278	2289,308	9.3597042	33
34	1968,358	9.2941041	2073,555	9.3167156	2181,167	9.3386885	2291,160	9.3600555	34
35	1970,091	9.2944863	2075,329	9.3170870	2182,981	9.3390495	2293,014	9.3604067	35
36	1971,825	9.2948684	2077,104	9.3174582	2184,795	9.3394107	2294,868	9.3607576	36
37	1973,560	9.2952503	2078,879	9.3178292	2186,610	9.3397714	2296,722	9.3611084	37
38	1975,295	9.2956320	2080,655	9.3182000	2188,426	9.3401315	2298,577	9.3614591	38
39	1977,031	9.2960136	2082,431	9.3185706	2190,243	9.3404922	2300,433	9.3618096	39
40	1978,768	9.2963949	2084,208	9.3189411	2192,060	9.3408524	2302,290	9.3621599	40
41	1980,505	9.2967760	2085,986	9.3193114	2193,877	9.3412124	2304,147	9.3625101	41
42	1982,244	9.2971570	2087,765	9.3196815	2195,696	9.3415721	2306,004	9.3628601	42
43	1983,982	9.2975378	2089,544	9.3200515	2197,515	9.3419315	2307,863	9.3632100	43
44	1985,722	9.2979184	2091,324	9.3204213	2199,335	9.3422913	2309,722	9.3635597	44
45	1987,462	9.2982988	2093,104	9.3207909	2201,155	9.3426507	2311,582	9.3639092	45
46	1989,203	9.2986790	2094,885	9.3211603	2202,976	9.3430098	2313,442	9.3642586	46
47	1990,944	9.2990591	2096,667	9.3215295	2204,798	9.3433688	2315,303	9.3646079	47
48	1992,686	9.2994389	2098,450	9.3218986	2206,620	9.3437276	2317,165	9.3649569	48
49	1994,429	9.2998186	2100,233	9.3222675	2208,443	9.3440863	2319,027	9.3653058	49
50	1996,173	9.3001981	2102,017	9.3226362	2210,267	9.3444444	2320,890	9.3656549	50
51	1997,917	9.3005774	2103,802	9.3230048	2212,091	9.3448031	2322,754	9.3660032	51
52	1999,662	9.3009565	2105,587	9.3233731	2213,916	9.3451612	2324,618	9.3663516	52
53	2001,407	9.3013355	2107,373	9.3237413	2215,742	9.3455192	2326,483	9.3666999	53
54	2003,153	9.3017142	2109,159	9.3241094	2217,569	9.3458770	2328,348	9.3670480	54
55	2004,900	9.3020928	2110,946	9.3244772	2219,396	9.3462347	2330,215	9.3673959	55
56	2006,648	9.3024712	2112,734	9.3248449	2221,223	9.3465922	2332,082	9.3677437	56
57	2008,396	9.3028494	2114,523	9.3252124	2223,051	9.3469495	2333,949	9.3680914	57
58	2010,145	9.3032274	2116,312	9.3255797	2224,880	9.3473067	2335,817	9.3684389	58
59	2011,895	9.3036052	2118,102	9.3259469	2226,710	9.3476637	2337,686	9.3687862	59
60	2013,645	9.3039829	2119,892	9.3263138	2228,540	9.3480205	2339,556	9.3691334	60

Min.	40 Deg.		41 Deg.		42 Deg.		43 Deg.		Min.
	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	N. V. fine	L. Ver. fine	
0	2339,556	9.3691334	2452,904	9.3896806	2568,552	9.4096883	2686,463	9.4291809	0
1	2341,426	9.3694804	2454,813	9.3900184	2570,498	9.4100174	2688,447	9.4295015	1
2	2343,296	9.3698272	2456,722	9.3903561	2572,446	9.4103462	2690,432	9.4298220	2
3	2345,168	9.3701739	2458,632	9.3906936	2574,394	9.4106750	2692,417	9.4301424	3
4	2347,040	9.3705205	2460,543	9.3910309	2576,342	9.4110036	2694,403	9.4304626	4
5	2348,913	9.3708669	2462,454	9.3913682	2578,292	9.4113321	2696,390	9.4307827	5
6	2350,786	9.3712131	2464,366	9.3917052	2580,242	9.4116604	2698,377	9.4311027	6
7	2352,660	9.3715592	2466,279	9.3920421	2582,192	9.4119885	2700,365	9.4314225	7
8	2354,535	9.3719051	2468,192	9.3923789	2584,143	9.4123166	2702,354	9.4317422	8
9	2356,410	9.3722508	2470,106	9.3927155	2586,095	9.4126445	2704,343	9.4320617	9
10	2358,286	9.3725965	2472,020	9.3930520	2588,047	9.4129722	2706,332	9.4323811	10
11	2360,162	9.3729419	2473,935	9.3933883	2590,000	9.4133098	2708,323	9.4327004	11
12	2362,040	9.3732872	2475,851	9.3937245	2591,954	9.4136273	2710,314	9.4330196	12
13	2363,918	9.3736323	2477,767	9.3940605	2593,908	9.4139546	2712,305	9.4333386	13
14	2365,796	9.3739773	2479,684	9.3943964	2595,863	9.4142818	2714,297	9.4336574	14
15	2367,675	9.3743221	2481,602	9.3947321	2597,819	9.4146088	2716,290	9.4339762	15
16	2369,555	9.3746668	2483,520	9.3950677	2599,775	9.4149357	2718,284	9.4342948	16
17	2371,436	9.3750113	2485,439	9.3954031	2601,732	9.4152625	2720,278	9.4346133	17
18	2373,317	9.3753557	2487,359	9.3957384	2603,689	9.4155891	2722,272	9.4349316	18
19	2375,198	9.3756999	2489,279	9.3960735	2605,647	9.4159156	2724,268	9.4352498	19
20	2377,081	9.3760446	2491,200	9.3964085	2607,606	9.4162419	2726,264	9.4355678	20
21	2378,964	9.3763879	2493,121	9.3967434	2609,565	9.4165681	2728,260	9.4358858	21
22	2380,848	9.3767316	2495,043	9.3970781	2611,525	9.4168942	2730,257	9.4362032	22
23	2382,732	9.3770752	2496,966	9.3974126	2613,485	9.4172201	2732,255	9.4365212	23
24	2384,617	9.3774186	2498,889	9.3977470	2615,447	9.4175459	2734,253	9.4368387	24
25	2386,503	9.3777619	2500,813	9.3980813	2617,408	9.4178715	2736,252	9.4371561	25
26	2388,389	9.3781050	2502,738	9.3984154	2619,371	9.4181970	2738,252	9.4374734	26
27	2390,276	9.3784480	2504,663	9.3987493	2621,334	9.4185223	2740,252	9.4377905	27
28	2392,163	9.3787908	2506,589	9.3990831	2623,297	9.4188475	2742,253	9.4381076	28
29	2394,051	9.3791335	2508,516	9.3994168	2625,262	9.4191726	2744,254	9.4384243	29
30	2395,940	9.3794760	2510,443	9.3997503	2627,227	9.4194975	2746,256	9.4387411	30
31	2397,830	9.3798184	2512,371	9.4000837	2629,192	9.4198223	2748,259	9.4390576	31
32	2399,720	9.3801606	2514,299	9.4004169	2631,158	9.4201470	2750,262	9.4393741	32
33	2401,611	9.3805026	2516,228	9.4007500	2633,125	9.4204715	2752,266	9.4396906	33
34	2403,502	9.3808445	2518,158	9.4010829	2635,092	9.4207959	2754,271	9.4400066	34
35	2405,394	9.3811863	2520,088	9.4014157	2637,060	9.4211201	2756,276	9.4403227	35
36	2407,287	9.3815279	2522,019	9.4017484	2639,029	9.4214442	2758,281	9.4406386	36
37	2409,180	9.3818693	2523,951	9.4020809	2640,998	9.4217681	2760,288	9.4409544	37
38	2411,074	9.3822106	2525,883	9.4024132	2642,968	9.4220920	2762,295	9.4412700	38
39	2412,969	9.3825517	2527,816	9.4027454	2644,939	9.4224156	2764,302	9.4415853	39
40	2414,864	9.3828927	2529,749	9.4030775	2646,910	9.4227392	2766,310	9.4419005	40
41	2416,760	9.3832335	2531,683	9.4034094	2648,882	9.4230626	2768,319	9.4422162	41
42	2418,657	9.3835742	2533,618	9.4037412	2650,854	9.4233858	2770,329	9.4425313	42
43	2420,554	9.3839147	2535,554	9.4040728	2652,827	9.4237089	2772,339	9.4428463	43
44	2422,452	9.3842551	2537,490	9.4044043	2654,801	9.4240319	2774,349	9.4431611	44
45	2424,350	9.3845953	2539,426	9.4047356	2656,775	9.4243548	2776,360	9.4434758	45
46	2426,249	9.3849354	2541,364	9.4050668	2658,750	9.4246775	2778,372	9.4437904	46
47	2428,149	9.3852753	2543,301	9.4053978	2660,725	9.4250000	2780,385	9.4441049	47
48	2430,049	9.3856151	2545,240	9.4057287	2662,701	9.4253223	2782,398	9.4444192	48
49	2431,950	9.3859547	2547,179	9.4060595	2664,678	9.4256447	2784,411	9.4447334	49
50	2433,852	9.3862942	2549,119	9.4063901	2666,655	9.4259669	2786,426	9.4450475	50
51	2435,754	9.3866335	2551,059	9.4067206	2668,633	9.4262889	2788,441	9.4453614	51
52	2437,657	9.3869727	2553,001	9.4070509	2670,612	9.4266108	2790,456	9.4456752	52
53	2439,561	9.3873117	2554,942	9.4073811	2672,591	9.4269325	2792,472	9.4459889	53
54	2441,465	9.3876506	2556,885	9.4077111	2674,571	9.4272541	2794,489	9.4463024	54
55	2443,370	9.3879893	2558,827	9.4080410	2676,551	9.4275756	2796,506	9.4466158	55
56	2445,276	9.3883278	2560,771	9.4083708	2678,533	9.4278969	2798,524	9.4469291	56
57	2447,182	9.3886662	2562,715	9.4087004	2680,514	9.4282181	2800,543	9.4472422	57
58	2449,089	9.3890045	2564,660	9.4090298	2682,497	9.4285392	2802,562	9.4475552	58
59	2450,996	9.3893426	2566,606	9.4093591	2684,479	9.4288601	2804,582	9.4478681	59
60	2452,904	9.3896806	2568,552	9.4096883	2686,463	9.4291809	2806,602	9.4481808	60

Min.	44 Deg.		45 Deg.		46 Deg.		47 Deg.		Min.
	N. V. line	L. Ver. line	N. V. line	L. Ver. line	N. V. line	L. Ver. line	N. V. line	L. Ver. line	
0	2806,602	9.4481808	2928,932	9.4667093	3053,416	9.4847806	3180,016	9.5024294	0
1	2808,623	9.4484934	2930,958	9.4670142	3055,509	9.4850836	3182,144	9.5027198	1
2	2810,645	9.4488059	2933,047	9.4673190	3057,602	9.4853810	3184,272	9.5030102	2
3	2812,667	9.4491183	2935,106	9.4676237	3059,696	9.4856783	3186,401	9.5033005	3
4	2814,690	9.4494305	2937,165	9.4679283	3061,791	9.4859755	3188,531	9.5035906	4
5	2816,713	9.4497426	2939,224	9.4682327	3063,886	9.4862725	3190,661	9.5038806	5
6	2818,737	9.4500546	2941,284	9.4685370	3065,982	9.4865696	3192,791	9.5041705	6
7	2820,762	9.4503664	2943,343	9.4688412	3068,078	9.4868664	3194,922	9.5044603	7
8	2822,787	9.4506781	2945,406	9.4691452	3070,175	9.4871631	3197,054	9.5047500	8
9	2824,813	9.4509897	2947,466	9.4694492	3072,272	9.4874597	3199,187	9.5050396	9
10	2826,839	9.4513011	2949,531	9.4697530	3074,370	9.4877562	3201,319	9.5053293	10
11	2828,866	9.4516124	2951,594	9.4700566	3076,465	9.4880525	3203,453	9.5056189	11
12	2830,894	9.4519236	2953,658	9.4703602	3078,568	9.4883488	3205,587	9.5059076	12
13	2832,922	9.4522340	2955,722	9.4706630	3080,668	9.4886449	3207,722	9.5061907	13
14	2834,951	9.4525454	2957,787	9.4709669	3082,768	9.4889409	3209,857	9.5064857	14
15	2836,981	9.4528564	2959,853	9.4712701	3084,869	9.4892368	3211,993	9.5067743	15
16	2839,011	9.4531670	2961,919	9.4715732	3086,971	9.4895326	3214,127	9.5070633	16
17	2841,041	9.4534776	2963,986	9.4718761	3089,073	9.4898282	3216,266	9.5073519	17
18	2843,073	9.4537880	2966,053	9.4721789	3091,176	9.4901237	3218,403	9.5076405	18
19	2845,105	9.4540982	2968,121	9.4724816	3093,279	9.4904191	3220,541	9.5079289	19
20	2847,137	9.4544084	2970,189	9.4727841	3095,383	9.4907144	3222,680	9.5082172	20
21	2849,170	9.4547184	2972,259	9.4730866	3097,488	9.4910096	3224,819	9.5085056	21
22	2851,204	9.4550283	2974,328	9.4733889	3099,593	9.4913046	3226,959	9.5087934	22
23	2853,238	9.4553380	2976,399	9.4736911	3101,698	9.4915996	3229,099	9.5090814	23
24	2855,273	9.4556477	2978,469	9.4739932	3103,805	9.4918944	3231,240	9.5093693	24
25	2857,309	9.4559572	2980,541	9.4742951	3105,911	9.4921891	3233,382	9.5096570	25
26	2859,345	9.4562665	2982,613	9.4745969	3108,019	9.4924836	3235,524	9.5099446	26
27	2861,382	9.4565758	2984,686	9.4748986	3110,127	9.4927781	3237,667	9.5102321	27
28	2863,419	9.4568849	2986,759	9.4752002	3112,235	9.4930724	3239,810	9.5105195	28
29	2865,457	9.4571939	2988,833	9.4755016	3114,345	9.4933667	3241,954	9.5108068	29
30	2867,496	9.4575027	2990,907	9.4758030	3116,454	9.4936608	3244,098	9.5110940	30
31	2869,535	9.4578115	2992,982	9.4761042	3118,563	9.4939547	3246,243	9.5113811	31
32	2871,574	9.4581201	2995,058	9.4764052	3120,675	9.4942486	3248,388	9.5116679	32
33	2873,615	9.4584286	2997,134	9.4767062	3122,787	9.4945424	3250,534	9.5119548	33
34	2875,656	9.4587369	2999,211	9.4770070	3124,899	9.4948360	3252,681	9.5122415	34
35	2877,697	9.4590451	3001,289	9.4773078	3127,012	9.4951295	3254,826	9.5125281	35
36	2879,740	9.4593532	3003,367	9.4776083	3129,125	9.4954229	3256,973	9.5128146	36
37	2881,782	9.4596612	3005,445	9.4779088	3131,239	9.4957162	3259,124	9.5131009	37
38	2883,826	9.4599690	3007,524	9.4782092	3133,353	9.4960093	3261,273	9.5133872	38
39	2885,870	9.4602767	3009,604	9.4785094	3135,468	9.4963024	3263,423	9.5136734	39
40	2887,914	9.4605843	3011,685	9.4788095	3137,584	9.4965953	3265,573	9.5139594	40
41	2889,959	9.4608918	3013,766	9.4791095	3139,700	9.4968881	3267,724	9.5142453	41
42	2892,005	9.4611991	3015,847	9.4794093	3141,816	9.4971808	3269,875	9.5145311	42
43	2894,052	9.4615063	3017,929	9.4797091	3143,934	9.4974734	3272,027	9.5148168	43
44	2896,099	9.4618134	3020,012	9.4800087	3146,052	9.4977658	3274,179	9.5151024	44
45	2898,146	9.4621203	3022,095	9.4803082	3148,170	9.4980582	3276,332	9.5153879	45
46	2900,194	9.4624271	3024,179	9.4806075	3150,289	9.4983504	3278,485	9.5156733	46
47	2902,243	9.4627338	3026,264	9.4809068	3152,409	9.4986425	3280,639	9.5159585	47
48	2904,293	9.4630404	3028,349	9.4812059	3154,529	9.4989345	3282,794	9.5162436	48
49	2906,343	9.4633468	3030,435	9.4815049	3156,650	9.4992264	3284,949	9.5165287	49
50	2908,393	9.4636531	3032,521	9.4818038	3158,771	9.4995182	3287,105	9.5168136	50
51	2910,444	9.4639593	3034,608	9.4821026	3160,893	9.4998098	3289,261	9.5170984	51
52	2912,496	9.4642654	3036,695	9.4824012	3163,016	9.5001017	3291,418	9.5173831	52
53	2914,549	9.4645713	3038,783	9.4826997	3165,139	9.5003932	3293,575	9.5176677	53
54	2916,602	9.4648771	3040,872	9.4829981	3167,262	9.5006840	3295,734	9.5179521	54
55	2918,655	9.4651828	3042,961	9.4832964	3169,387	9.5009752	3297,892	9.5182365	55
56	2920,709	9.4654884	3045,051	9.4835946	3171,511	9.5012663	3300,052	9.5185209	56
57	2922,764	9.4657938	3047,142	9.4838926	3173,637	9.5015572	3302,211	9.5188049	57
58	2924,820	9.4660991	3049,233	9.4841905	3175,763	9.5018480	3304,372	9.5190889	58
59	2926,876	9.4664043	3051,324	9.4844883	3177,889	9.5021388	3306,532	9.5193728	59
60	2928,932	9.4667093	3053,416	9.4847860	3180,016	9.5024291	3308,694	9.5196566	60

Min.	48 Deg.		49 Deg.		50 Deg.		51 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	3308,89	5.5196566	3439,410	5.5364839	3572,124	5.5529266	3706,796	5.5689987	0
1	3310,65	5.5199403	3441,605	5.5367611	3574,353	5.5531974	3709,987	5.5692635	1
2	3313,019	5.5202239	3443,802	5.5370381	3576,582	5.5534681	3713,18	5.5695282	2
3	3315,182	5.5205073	3445,998	5.5373151	3578,811	5.5537388	3716,380	5.5697928	3
4	3317,345	5.5207907	3448,194	5.5375919	3581,040	5.5540094	3719,583	5.5700573	4
5	3319,510	5.5210739	3450,393	5.5378686	3583,272	5.5542798	3722,786	5.5703218	5
6	3321,674	5.5213571	3452,592	5.5381452	3585,504	5.5545502	3725,989	5.5705861	6
7	3323,840	5.5216401	3454,791	5.5384218	3587,736	5.5548206	3729,193	5.5708503	7
8	3326,006	5.5219230	3456,990	5.5386982	3589,968	5.5550909	3732,398	5.5711144	8
9	3328,172	5.5222058	3459,190	5.5389745	3592,201	5.5553606	3735,603	5.5713784	9
10	3330,339	5.5224885	3461,391	5.5392507	3594,434	5.5556304	3738,808	5.5716423	10
11	3332,507	5.5227711	3463,592	5.5395268	3596,668	5.5559006	3742,013	5.5719062	11
12	3334,675	5.5230536	3465,794	5.5398027	3598,903	5.5561701	3745,218	5.5721700	12
13	3336,844	5.5233359	3467,996	5.5400786	3601,138	5.5564398	3748,423	5.5724335	13
14	3339,013	5.5236182	3470,199	5.5403541	3603,374	5.5567093	3751,628	5.5726970	14
15	3341,183	5.5239003	3472,402	5.5406304	3605,610	5.5569787	3754,833	5.5729605	15
16	3343,354	5.5241823	3474,606	5.5409056	3607,847	5.5572481	3758,038	5.5732238	16
17	3345,525	5.5244643	3476,811	5.5411811	3610,084	5.5575173	3761,243	5.5734870	17
18	3347,696	5.5247461	3479,016	5.5414564	3612,322	5.5577864	3764,448	5.5737502	18
19	3349,869	5.5250278	3481,222	5.5417317	3614,560	5.5580555	3767,653	5.5740132	19
20	3352,041	5.5253094	3483,428	5.5420068	3616,799	5.5583244	3770,858	5.5742761	20
21	3354,215	5.5255908	3485,635	5.5422818	3619,039	5.5585932	3774,063	5.5745393	21
22	3356,388	5.5258722	3487,842	5.5425568	3621,279	5.5588619	3777,268	5.5748017	22
23	3358,563	5.5261535	3490,049	5.5428316	3623,519	5.5591305	3780,473	5.5750642	23
24	3360,738	5.5264346	3492,258	5.5431063	3625,760	5.5593991	3783,678	5.5753269	24
25	3362,913	5.5267157	3494,468	5.5433809	3628,000	5.5596677	3786,883	5.5755893	25
26	3365,090	5.5269966	3496,676	5.5436554	3630,244	5.5599358	3790,088	5.5758517	26
27	3367,266	5.5272774	3498,886	5.5439298	3632,487	5.5602040	3793,293	5.5761139	27
28	3369,443	5.5275582	3501,097	5.5442041	3634,730	5.5604721	3796,498	5.5763762	28
29	3371,621	5.5278388	3503,303	5.5444783	3636,974	5.5607401	3799,703	5.5766382	29
30	3373,800	5.5281193	3505,520	5.5447524	3639,218	5.5610080	3802,908	5.5769001	30
31	3375,978	5.5283997	3507,732	5.5450266	3641,463	5.5612759	3806,113	5.5771620	31
32	3378,158	5.5286799	3509,944	5.5453008	3643,708	5.5615436	3809,318	5.5774237	32
33	3380,338	5.5289601	3512,158	5.5455740	3645,954	5.5618112	3812,523	5.5776854	33
34	3382,518	5.5292401	3514,372	5.5458477	3648,200	5.5620787	3815,728	5.5779470	34
35	3384,700	5.5295201	3516,586	5.5461213	3650,447	5.5623461	3818,933	5.5782087	35
36	3386,881	5.5298000	3518,801	5.5463947	3652,695	5.5626134	3822,138	5.5784698	36
37	3389,064	5.5300797	3521,016	5.5466681	3654,943	5.5628806	3825,343	5.5787311	37
38	3391,246	5.5303594	3523,230	5.5469414	3657,192	5.5631477	3828,548	5.5789923	38
39	3393,430	5.5306389	3525,445	5.5472145	3659,441	5.5634147	3831,753	5.5792534	39
40	3395,614	5.5309183	3527,666	5.5474875	3661,690	5.5636816	3834,958	5.5795144	40
41	3397,798	5.5311976	3529,882	5.5477604	3663,941	5.5639484	3838,163	5.5797753	41
42	3399,981	5.5314768	3532,124	5.5480333	3666,191	5.5642151	3841,368	5.5800361	42
43	3402,169	5.5317559	3534,321	5.5483060	3668,443	5.5644817	3844,573	5.5802968	43
44	3404,355	5.5320349	3536,540	5.5485786	3670,694	5.5647482	3847,778	5.5805574	44
45	3406,542	5.5323137	3538,760	5.5488511	3672,947	5.5650146	3850,983	5.5808179	45
46	3408,729	5.5325925	3540,980	5.5491236	3675,200	5.5652809	3854,188	5.5810783	46
47	3410,917	5.5328712	3543,202	5.5493989	3677,453	5.5655471	3857,393	5.5813386	47
48	3413,105	5.5331497	3545,423	5.5496681	3679,707	5.5658132	3860,598	5.5815988	48
49	3415,294	5.5334281	3547,645	5.5499404	3681,961	5.5660792	3863,803	5.5818589	49
50	3417,484	5.5337065	3549,868	5.5502122	3684,216	5.5663453	3867,008	5.5821190	50
51	3419,674	5.5339847	3552,091	5.5504841	3686,472	5.5666109	3870,213	5.5823785	51
52	3421,865	5.5342628	3554,315	5.5507555	3688,728	5.5668768	3873,418	5.5826382	52
53	3424,056	5.5345408	3556,539	5.5510276	3690,984	5.5671423	3876,623	5.5828983	53
54	3426,248	5.5348187	3558,764	5.5512992	3693,242	5.5674078	3879,828	5.5831581	54
55	3428,440	5.5350965	3560,989	5.5515706	3695,500	5.5676732	3883,033	5.5834177	55
56	3430,633	5.5353742	3563,215	5.5518420	3697,758	5.5679385	3886,238	5.5836775	56
57	3432,826	5.5356518	3565,441	5.5521133	3700,017	5.5682037	3889,443	5.5839364	57
58	3435,020	5.5359293	3567,668	5.5523845	3702,276	5.5684688	3892,648	5.5841958	58
59	3437,215	5.5362067	3569,896	5.5526555	3704,536	5.5687338	3895,853	5.5844549	59
60	3439,410	5.5364839	3572,124	5.5529265	3706,796	5.5689987	3899,058	5.5847139	60

Min.	52 Deg.		53 Deg.		54 Deg.		55 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	3843,385	9.5847139	3981,850	9.6000849	4122,147	9.6151235	4264,236	9.6298412	0
1	3845,678	9.5849729	3984,173	9.6003382	4124,501	9.6153714	4266,619	9.6300838	1
2	3847,971	9.5852318	3986,497	9.6005914	4126,855	9.6156192	4269,002	9.6303264	2
3	3850,264	9.5854905	3988,821	9.6008446	4129,210	9.6158665	4271,386	9.6305688	3
4	3852,558	9.5857492	3991,146	9.6010977	4131,565	9.6161146	4273,771	9.6308112	4
5	3854,853	9.5860078	3993,472	9.6013506	4133,920	9.6163621	4276,156	9.6310535	5
6	3857,148	9.5862663	3995,798	9.6016035	4136,276	9.6166096	4278,541	9.6312957	6
7	3859,444	9.5865247	3998,124	9.6018563	4138,633	9.6168569	4280,927	9.6315378	7
8	3861,740	9.5867830	4000,451	9.6021090	4140,990	9.6171042	4283,314	9.6317799	8
9	3864,036	9.5870412	4002,779	9.6023616	4143,348	9.6173514	4285,701	9.6320218	9
10	3866,334	9.5872993	4005,107	9.6026141	4145,706	9.6175985	4288,088	9.6322637	10
11	3868,631	9.5875573	4007,435	9.6028665	4148,064	9.6178455	4290,476	9.6325055	11
12	3870,929	9.5878153	4009,764	9.6031188	4150,423	9.6180924	4292,864	9.6327472	12
13	3873,228	9.5880731	4012,094	9.6033710	4152,783	9.6183392	4295,253	9.6329888	13
14	3875,527	9.5883308	4014,423	9.6036232	4155,143	9.6185860	4297,643	9.6332303	14
15	3877,827	9.5885885	4016,754	9.6038752	4157,503	9.6188320	4300,032	9.6334717	15
16	3880,127	9.5888460	4019,085	9.6041272	4159,864	9.6190792	4302,423	9.6337131	16
17	3882,428	9.5891034	4021,417	9.6043791	4162,226	9.6193256	4304,813	9.6339543	17
18	3884,730	9.5893608	4023,749	9.6046308	4164,588	9.6195720	4307,205	9.6341955	18
19	3887,031	9.5896181	4026,081	9.6048825	4166,950	9.6198183	4309,597	9.6344366	19
20	3889,334	9.5898752	4028,414	9.6051341	4169,313	9.6200645	4311,989	9.6346776	20
21	3891,637	9.5901323	4030,748	9.6053856	4171,677	9.6203107	4314,381	9.6349185	21
22	3893,940	9.5903893	4033,082	9.6056370	4174,041	9.6205567	4316,775	9.6351594	22
23	3896,244	9.5906461	4035,416	9.6058883	4176,405	9.6208026	4319,168	9.6354001	23
24	3898,548	9.5909029	4037,751	9.6061396	4178,770	9.6210485	4321,563	9.6356408	24
25	3900,853	9.5911596	4040,087	9.6063907	4181,136	9.6212943	4323,957	9.6358814	25
26	3903,159	9.5914162	4042,423	9.6066417	4183,502	9.6215400	4326,352	9.6361219	26
27	3905,465	9.5916727	4044,759	9.6068927	4185,868	9.6217855	4328,748	9.6363623	27
28	3907,771	9.5919291	4047,096	9.6071436	4188,235	9.6220311	4331,144	9.6366028	28
29	3910,078	9.5921854	4049,434	9.6073943	4190,603	9.6222765	4333,541	9.6368432	29
30	3912,386	9.5924417	4051,772	9.6076450	4192,970	9.6225218	4335,938	9.6370836	30
31	3914,694	9.5926978	4054,111	9.6078956	4195,339	9.6227670	4338,335	9.6373231	31
32	3917,002	9.5929538	4056,450	9.6081461	4197,708	9.6230122	4340,733	9.6375635	32
33	3919,311	9.5932098	4058,789	9.6083965	4200,077	9.6232573	4343,132	9.6378039	33
34	3921,621	9.5934656	4061,129	9.6086468	4202,447	9.6235022	4345,531	9.6380442	34
35	3923,931	9.5937214	4063,470	9.6088971	4204,817	9.6237471	4347,930	9.6382845	35
36	3926,242	9.5939770	4065,811	9.6091472	4207,188	9.6239919	4350,330	9.6385248	36
37	3928,553	9.5942326	4068,153	9.6093972	4209,560	9.6242367	4352,730	9.6387618	37
38	3930,864	9.5944881	4070,495	9.6096472	4211,931	9.6244813	4355,131	9.6390012	38
39	3933,176	9.5947434	4072,837	9.6098971	4214,304	9.6247258	4357,533	9.6392406	39
40	3935,489	9.5949987	4075,181	9.6101469	4216,677	9.6249703	4359,934	9.6394800	40
41	3937,802	9.5952539	4077,524	9.6103965	4219,050	9.6252147	4362,337	9.6397192	41
42	3940,116	9.5955090	4079,868	9.6106461	4221,424	9.6254589	4364,740	9.6399583	42
43	3942,430	9.5957640	4082,213	9.6108956	4223,798	9.6257031	4367,143	9.6401974	43
44	3944,745	9.5960189	4084,558	9.6111451	4226,173	9.6259473	4369,547	9.6404364	44
45	3947,060	9.5962737	4086,904	9.6113944	4228,548	9.6261913	4371,951	9.6406753	45
46	3949,376	9.5965285	4089,250	9.6116436	4230,924	9.6264352	4374,355	9.6409141	46
47	3951,692	9.5967831	4091,596	9.6118928	4233,300	9.6266791	4376,761	9.6411528	47
48	3954,009	9.5970376	4093,943	9.6121418	4235,677	9.6269228	4379,166	9.6413914	48
49	3956,326	9.5972921	4096,291	9.6123908	4238,054	9.6271665	4381,572	9.6416300	49
50	3958,644	9.5975464	4098,639	9.6126397	4240,432	9.6274101	4383,979	9.6418685	50
51	3960,962	9.5978007	4100,988	9.6128885	4242,810	9.6276536	4386,386	9.6421068	51
52	3963,281	9.5980549	4103,337	9.6131372	4245,189	9.6278970	4388,794	9.6423452	52
53	3965,600	9.5983089	4105,686	9.6133858	4247,568	9.6281403	4391,202	9.6425834	53
54	3967,920	9.5985629	4108,036	9.6136343	4249,947	9.6283836	4393,610	9.6428215	54
55	3970,240	9.5988168	4110,387	9.6138827	4252,328	9.6286267	4396,019	9.6430596	55
56	3972,561	9.5990706	4112,738	9.6141311	4254,708	9.6288698	4398,428	9.6432975	56
57	3974,883	9.5993243	4115,090	9.6143793	4257,089	9.6291128	4400,838	9.6435354	57
58	3977,205	9.5995779	4117,442	9.6146275	4259,471	9.6293557	4403,249	9.6437733	58
59	3979,527	9.5998314	4119,794	9.6148755	4261,853	9.6295985	4405,660	9.6440109	59
60	3981,850	9.6000849	4122,147	9.6151235	4264,236	9.6298412	4408,071	9.6442486	60

Min	56 Deg.		57 Deg.		58 Deg.		59 Deg.		Min
	N. V. line	L. Ver. line	N. V. fine	L. Ver. fine	N. V. line	L. Ver. line	N. V. fine	L. Ver. fine	
0	4408,071	9.6442486	4553,610	9.6583558	4700,801	9.6721725	4849,619	9.6857070	0
1	4410,483	9.6444861	4556,049	9.6585884	4703,274	9.6724003	4852,113	9.6859309	1
2	4412,895	9.6447231	4558,490	9.6588210	4705,742	9.6726281	4854,607	9.6861541	2
3	4415,306	9.6449610	4560,931	9.6590535	4708,210	9.6728558	4857,101	9.6863772	3
4	4417,721	9.6451983	4563,372	9.6592858	4710,678	9.6730835	4859,596	9.6866002	4
5	4420,135	9.6454355	4565,813	9.6595182	4713,147	9.6733111	4862,092	9.6868231	5
6	4422,549	9.6456726	4568,256	9.6597504	4715,617	9.6735388	4864,587	9.6870460	6
7	4424,964	9.6459097	4570,698	9.6599825	4718,086	9.6737659	4867,084	9.6872688	7
8	4427,379	9.6461467	4573,141	9.6602146	4720,557	9.6739932	4869,580	9.6874915	8
9	4429,794	9.6463836	4575,585	9.6604466	4723,027	9.6742205	4872,077	9.6877142	9
10	4432,210	9.6466204	4578,029	9.6606785	4725,498	9.6744476	4874,575	9.6879368	10
11	4434,627	9.6468571	4580,473	9.6609103	4727,970	9.6746747	4877,073	9.6881593	11
12	4437,044	9.6470937	4582,918	9.6611421	4730,442	9.6749017	4879,571	9.6883817	12
13	4439,461	9.6473303	4585,363	9.6613737	4732,915	9.6751287	4882,070	9.6886040	13
14	4441,879	9.6475667	4587,809	9.6616053	4735,387	9.6753555	4884,565	9.6888263	14
15	4444,298	9.6478031	4590,255	9.6618368	4737,861	9.6755823	4887,060	9.6890485	15
16	4446,717	9.6480394	4592,702	9.6620683	4740,335	9.6758090	4889,556	9.6892706	16
17	4449,136	9.6482757	4595,149	9.6622996	4742,809	9.6760356	4892,050	9.6894926	17
18	4451,556	9.6485118	4597,597	9.6625309	4745,283	9.6762622	4894,547	9.6897146	18
19	4453,976	9.6487479	4600,045	9.6627621	4747,759	9.6764886	4897,042	9.6899365	19
20	4456,397	9.6489832	4602,493	9.6629932	4750,234	9.6767150	4899,538	9.6901583	20
21	4458,818	9.6492197	4604,942	9.6632242	4752,710	9.6769413	4902,036	9.6903801	21
22	4461,240	9.6494556	4607,392	9.6634552	4755,187	9.6771676	4904,535	9.6906017	22
23	4463,662	9.6496913	4609,842	9.6636860	4757,664	9.6773937	4907,032	9.6908233	23
24	4466,085	9.6499269	4612,292	9.6639168	4760,141	9.6776198	4909,530	9.6910449	24
25	4468,508	9.6501625	4614,743	9.6641475	4762,619	9.6778458	4912,028	9.6912663	25
26	4470,931	9.6503980	4617,194	9.6643781	4765,097	9.6780717	4914,524	9.6914876	26
27	4473,355	9.6506334	4619,646	9.6646087	4767,576	9.6782976	4917,020	9.6917090	27
28	4475,780	9.6508687	4622,098	9.6648392	4770,055	9.6785234	4919,516	9.6919302	28
29	4478,205	9.6511039	4624,551	9.6650696	4772,534	9.6787491	4922,011	9.6921513	29
30	4480,630	9.6513391	4627,004	9.6652999	4775,014	9.6789747	4924,506	9.6923724	30
31	4483,056	9.6515741	4629,457	9.6655301	4777,495	9.6792002	4927,002	9.6925934	31
32	4485,482	9.6518092	4631,911	9.6657603	4779,976	9.6794257	4929,497	9.6928143	32
33	4487,909	9.6520441	4634,366	9.6659903	4782,457	9.6796511	4932,000	9.6930352	33
34	4490,337	9.6522789	4636,821	9.6662203	4784,939	9.6798764	4934,503	9.6932559	34
35	4492,764	9.6525136	4639,276	9.6664502	4787,421	9.6801016	4937,006	9.6934766	35
36	4495,193	9.6527483	4641,732	9.6666801	4789,904	9.6803268	4939,509	9.6936973	36
37	4497,621	9.6529829	4644,188	9.6669105	4792,387	9.6805519	4942,012	9.6939178	37
38	4500,050	9.6532174	4646,645	9.6671395	4794,870	9.6807769	4944,515	9.6941383	38
39	4502,480	9.6534518	4649,102	9.6673691	4797,354	9.6810018	4947,018	9.6943587	39
40	4504,910	9.6536861	4651,560	9.6675986	4799,839	9.6812266	4949,521	9.6945790	40
41	4507,341	9.6539204	4654,018	9.6678281	4802,324	9.6814514	4952,024	9.6947993	41
42	4509,772	9.6541546	4656,477	9.6680574	4804,809	9.6816761	4954,527	9.6950194	42
43	4512,203	9.6543887	4658,935	9.6682867	4807,295	9.6819007	4957,030	9.6952396	43
44	4514,635	9.6546227	4661,395	9.6685159	4809,781	9.6821253	4959,533	9.6954593	44
45	4517,068	9.6548566	4663,855	9.6687450	4812,267	9.6823498	4962,036	9.6956795	45
46	4519,501	9.6550904	4666,315	9.6689741	4814,754	9.6825741	4964,539	9.6958997	46
47	4521,934	9.6553242	4668,776	9.6692030	4817,242	9.6827985	4967,042	9.6961192	47
48	4524,368	9.6555579	4671,237	9.6694319	4819,730	9.6830227	4969,545	9.6963390	48
49	4526,802	9.6557915	4673,699	9.6696607	4822,218	9.6832469	4972,048	9.6965586	49
50	4529,237	9.6560250	4676,161	9.6698895	4824,707	9.6834710	4974,551	9.6967782	50
51	4531,672	9.6562585	4678,624	9.6701181	4827,196	9.6836950	4977,054	9.6969977	51
52	4534,108	9.6564918	4681,087	9.6703467	4829,686	9.6839189	4979,557	9.6972172	52
53	4536,544	9.6567251	4683,550	9.6705752	4832,176	9.6841428	4982,060	9.6974365	53
54	4538,980	9.6569583	4686,014	9.6708034	4834,667	9.6843663	4984,563	9.6976558	54
55	4541,417	9.6571914	4688,479	9.6710319	4837,158	9.6845902	4987,066	9.6978750	55
56	4543,855	9.6574245	4690,944	9.6712602	4839,649	9.6848139	4989,569	9.6980942	56
57	4546,293	9.6576574	4693,409	9.6714884	4842,141	9.6850374	4992,072	9.6983132	57
58	4548,731	9.6578903	4695,875	9.6717165	4844,633	9.6852609	4994,575	9.6985322	58
59	4551,170	9.6581231	4698,341	9.6719445	4847,126	9.6854843	4997,078	9.6987512	59
60	4553,610	9.6583558	4700,807	9.6721725	4849,619	9.6857076	5000,000	9.6989700	60

Min	60 Deg.		61 Deg.		62 Deg.		63 Deg.		Min
	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	
0	5000,000	9.6989700	5151,904	9.7119677	5305,284	9.7247087	5460,095	9.7372002	0
1	5002,519	9.6991888	5154,448	9.7121822	5307,853	9.7249185	5462,687	9.7374063	1
2	5005,039	9.6994075	5156,992	9.7123965	5310,422	9.7251290	5465,279	9.7376124	2
3	5007,559	9.6996271	5159,538	9.7126108	5312,991	9.7253391	5467,872	9.7378184	3
4	5010,080	9.6998447	5162,084	9.7128250	5315,561	9.7255491	5470,465	9.7380243	4
5	5012,601	9.7000631	5164,630	9.7130392	5318,131	9.7257591	5473,059	9.7382301	5
6	5015,123	9.7002816	5167,176	9.7132533	5320,702	9.7259689	5475,653	9.7384359	6
7	5017,645	9.7004999	5169,723	9.7134673	5323,273	9.7261787	5478,247	9.7386416	7
8	5020,167	9.7007182	5172,270	9.7136812	5325,844	9.7263885	5480,842	9.7388473	8
9	5022,690	9.7009363	5174,818	9.7138951	5328,416	9.7265981	5483,437	9.7390529	9
10	5025,213	9.7011545	5177,366	9.7141089	5330,988	9.7268077	5486,033	9.7392584	10
11	5027,736	9.7013728	5179,914	9.7143226	5333,561	9.7270172	5488,628	9.7394638	11
12	5030,260	9.7015905	5182,463	9.7145362	5336,134	9.7272267	5491,225	9.7396692	12
13	5032,785	9.7018084	5185,013	9.7147498	5338,707	9.7274361	5493,821	9.7398745	13
14	5035,310	9.7020262	5187,562	9.7149633	5341,281	9.7276454	5496,418	9.7400798	14
15	5037,835	9.7022435	5190,112	9.7151768	5343,855	9.7278546	5499,016	9.7402850	15
16	5040,361	9.7024616	5192,663	9.7153901	5346,429	9.7280638	5501,613	9.7404901	16
17	5042,887	9.7026792	5195,214	9.7156034	5349,004	9.7282729	5504,211	9.7406951	17
18	5045,413	9.7028967	5197,765	9.7158166	5351,580	9.7284820	5506,810	9.7409001	18
19	5047,940	9.7031142	5200,317	9.7160298	5354,155	9.7286910	5509,409	9.7411050	19
20	5050,468	9.7033316	5202,869	9.7162429	5356,731	9.7288999	5512,008	9.7413099	20
21	5052,995	9.7035489	5205,421	9.7164559	5359,308	9.7291087	5514,608	9.7415146	21
22	5055,524	9.7037661	5207,974	9.7166688	5361,885	9.7293175	5517,208	9.7417193	22
23	5058,052	9.7039833	5210,528	9.7168817	5364,462	9.7295262	5519,808	9.7419240	23
24	5060,581	9.7042004	5213,081	9.7170945	5367,040	9.7297348	5522,409	9.7421286	24
25	5063,111	9.7044174	5215,636	9.7173072	5369,618	9.7299434	5525,010	9.7423331	25
26	5065,641	9.7046344	5218,190	9.7175199	5372,196	9.7301515	5527,612	9.7425375	26
27	5068,171	9.7048513	5220,745	9.7177325	5374,775	9.7303603	5530,214	9.7427419	27
28	5070,702	9.7050681	5223,300	9.7179450	5377,354	9.7305686	5532,816	9.7429462	28
29	5073,233	9.7052848	5225,856	9.7181575	5379,934	9.7307765	5535,419	9.7431505	29
30	5075,764	9.7055015	5228,412	9.7183698	5382,514	9.7309852	5538,022	9.7433547	30
31	5078,296	9.7057180	5230,969	9.7185821	5385,094	9.7311933	5540,625	9.7435588	31
32	5080,829	9.7059346	5233,526	9.7187944	5387,675	9.7314014	5543,229	9.7437628	32
33	5083,362	9.7061510	5236,083	9.7190066	5390,256	9.7316094	5545,833	9.7439668	33
34	5085,895	9.7063674	5238,641	9.7192186	5392,838	9.7318174	5548,438	9.7441707	34
35	5088,428	9.7065839	5241,199	9.7194307	5395,420	9.7320252	5551,043	9.7443746	35
36	5090,962	9.7067997	5243,758	9.7196426	5398,002	9.7322331	5553,648	9.7445784	36
37	5093,497	9.7070160	5246,317	9.7198545	5400,585	9.7324408	5556,254	9.7447821	37
38	5096,032	9.7072321	5248,876	9.7200663	5403,168	9.7326485	5558,860	9.7449857	38
39	5098,567	9.7074481	5251,436	9.7202781	5405,752	9.7328561	5561,466	9.7451893	39
40	5101,103	9.7076641	5253,996	9.7204898	5408,335	9.7330636	5564,073	9.7453928	40
41	5103,639	9.7078799	5256,557	9.7207014	5410,920	9.7332711	5566,681	9.7455963	41
42	5106,175	9.7080957	5259,118	9.7209129	5413,504	9.7334785	5569,288	9.7457997	42
43	5108,712	9.7083115	5261,679	9.7211244	5416,090	9.7336858	5571,896	9.7460030	43
44	5111,250	9.7085271	5264,241	9.7213358	5418,675	9.7338931	5574,504	9.7462063	44
45	5113,788	9.7087427	5266,803	9.7215471	5421,261	9.7341003	5577,113	9.7464095	45
46	5116,326	9.7089582	5269,366	9.7217584	5423,847	9.7343074	5579,722	9.7466126	46
47	5118,864	9.7091736	5271,929	9.7219695	5426,434	9.7345145	5582,332	9.7468156	47
48	5121,403	9.7093890	5274,492	9.7221807	5429,021	9.7347218	5584,941	9.7470186	48
49	5123,943	9.7096043	5277,056	9.7223917	5431,608	9.7349284	5587,552	9.7472216	49
50	5126,483	9.7098195	5279,620	9.7226027	5434,196	9.7351353	5590,162	9.7474244	50
51	5129,023	9.7100346	5282,185	9.7228136	5436,784	9.7353421	5592,773	9.7476272	51
52	5131,564	9.7102497	5284,750	9.7230244	5439,373	9.7355488	5595,385	9.7478299	52
53	5134,105	9.7104647	5287,315	9.7232352	5441,962	9.7357555	5597,996	9.7480326	53
54	5136,646	9.7106797	5289,881	9.7234459	5444,551	9.7359621	5600,608	9.7482352	54
55	5139,188	9.7108945	5292,447	9.7236565	5447,141	9.7361686	5603,221	9.7484377	55
56	5141,730	9.7111093	5295,014	9.7238671	5449,731	9.7363750	5605,834	9.7486402	56
57	5144,273	9.7113240	5297,581	9.7240776	5452,321	9.7365814	5608,447	9.7488426	57
58	5146,816	9.7115387	5300,148	9.7242880	5454,912	9.7367878	5611,060	9.7490449	58
59	5149,360	9.7117532	5302,716	9.7244984	5457,503	9.7369940	5613,674	9.7492472	59
60	5151,904	9.7119677	5305,284	9.7247087	5460,095	9.7372002	5616,286	9.7494494	60

Min.	64 Deg.		65 Deg.		66 Deg.		67 Deg.		Min.
	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	
0	5616,289	9.7494494	5773,817	9.7614630	5932,634	9.7732475	6092,685	9.7848090	1
1	5618,903	9.7496516	5776,454	9.7616613	5935,291	9.7734420	6095,367	9.7849958	2
2	5621,518	9.7498536	5779,091	9.7618595	5937,949	9.7736365	6098,045	9.7851906	3
3	5624,134	9.7500556	5781,728	9.7620577	5940,607	9.7738300	6100,723	9.7853813	4
4	5626,749	9.7502576	5784,366	9.7622557	5943,266	9.7740232	6103,402	9.7855720	5
5	5629,366	9.7504595	5787,004	9.7624537	5945,925	9.7742194	6106,081	9.7857626	6
6	5631,982	9.7506613	5789,642	9.7626517	5948,584	9.7744136	6108,760	9.7859531	7
7	5634,599	9.7508630	5792,281	9.7628496	5951,244	9.7746077	6111,440	9.7861436	8
8	5637,216	9.7510647	5794,920	9.7630474	5953,904	9.7748018	6114,120	9.7863340	9
9	5639,834	9.7512663	5797,559	9.7632452	5956,564	9.7749958	6116,801	9.7865243	10
10	5642,452	9.7514679	5800,199	9.7634430	5959,225	9.7751898	6119,482	9.7867146	11
11	5645,070	9.7516694	5802,839	9.7636405	5961,885	9.7753838	6122,163	9.7869049	12
12	5647,689	9.7518708	5805,479	9.7638381	5964,547	9.7755775	6124,844	9.7870950	13
13	5650,308	9.7520721	5808,120	9.7640356	5967,209	9.7757712	6127,526	9.7872852	14
14	5652,928	9.7522734	5810,761	9.7642330	5969,871	9.7759649	6130,208	9.7874752	15
15	5655,547	9.7524746	5813,403	9.7644304	5972,533	9.7761586	6132,890	9.7876652	16
16	5658,168	9.7526758	5816,044	9.7646277	5975,196	9.7763521	6135,573	9.7878551	17
17	5660,788	9.7528769	5818,687	9.7648250	5977,859	9.7765457	6138,256	9.7880450	18
18	5663,409	9.7530779	5821,329	9.7650222	5980,522	9.7767391	6140,940	9.7882348	19
19	5666,030	9.7532789	5823,972	9.7652193	5983,186	9.7769325	6143,623	9.7884246	20
20	5668,652	9.7534798	5826,615	9.7654164	5985,850	9.7771258	6146,307	9.7886143	21
21	5671,274	9.7536806	5829,259	9.7656134	5988,514	9.7773191	6148,992	9.7888039	22
22	5673,897	9.7538814	5831,903	9.7658103	5991,179	9.7775123	6151,676	9.7889935	23
23	5676,519	9.7540821	5834,547	9.7660072	5993,844	9.7777055	6154,361	9.7891830	24
24	5679,143	9.7542828	5837,192	9.7662040	5996,510	9.7778985	6157,047	9.7893725	25
25	5681,766	9.7544833	5839,837	9.7664007	5999,175	9.7780916	6159,732	9.7895618	26
26	5684,390	9.7546839	5842,483	9.7665974	6001,842	9.7782845	6162,418	9.7897512	27
27	5687,014	9.7548843	5845,128	9.7667940	6004,508	9.7784774	6165,103	9.7899405	28
28	5689,639	9.7550847	5847,774	9.7669906	6007,175	9.7786703	6167,791	9.7901297	29
29	5692,264	9.7552850	5850,421	9.7671871	6009,842	9.7788630	6170,478	9.7903188	30
30	5694,889	9.7554853	5853,068	9.7673835	6012,509	9.7790558	6173,166	9.7905079	31
31	5697,515	9.7556855	5855,715	9.7675799	6015,177	9.7792484	6175,853	9.7906970	32
32	5700,141	9.7558856	5858,362	9.7677762	6017,845	9.7794410	6178,541	9.7908859	33
33	5702,767	9.7560856	5861,010	9.7679725	6020,514	9.7796335	6181,230	9.7910747	34
34	5705,394	9.7562856	5863,658	9.7681688	6023,182	9.7798260	6183,918	9.7912637	35
35	5708,021	9.7564856	5866,306	9.7683648	6025,852	9.7800184	6186,607	9.7914525	36
36	5710,649	9.7566854	5868,956	9.7685608	6028,521	9.7802108	6189,296	9.7916413	37
37	5713,277	9.7568852	5871,605	9.7687568	6031,191	9.7804031	6191,980	9.7918300	38
38	5715,905	9.7570850	5874,255	9.7689528	6033,861	9.7805953	6194,670	9.7920186	39
39	5718,533	9.7572847	5876,904	9.7691486	6036,532	9.7807875	6197,366	9.7922071	40
40	5721,162	9.7574843	5879,553	9.7693444	6039,202	9.7809796	6200,056	9.7923956	41
41	5723,792	9.7576838	5882,205	9.7695402	6041,873	9.7811716	6202,747	9.7925841	42
42	5726,421	9.7578833	5884,856	9.7697359	6044,545	9.7813636	6205,438	9.7927725	43
43	5729,051	9.7580827	5887,508	9.7699315	6047,217	9.7815555	6208,130	9.7929608	44
44	5731,682	9.7582821	5890,159	9.7701271	6049,889	9.7817474	6210,822	9.7931491	45
45	5734,313	9.7584814	5892,811	9.7703225	6052,561	9.7819392	6213,514	9.7933373	46
46	5736,944	9.7586806	5895,461	9.7705180	6055,234	9.7821309	6216,206	9.7935254	47
47	5739,575	9.7588798	5898,117	9.7707134	6057,907	9.7823226	6218,899	9.7937135	48
48	5742,207	9.7590789	5900,770	9.7709087	6060,581	9.7825143	6221,592	9.7939015	49
49	5744,839	9.7592779	5903,423	9.7711039	6063,255	9.7827058	6224,286	9.7940895	50
50	5747,472	9.7594769	5906,077	9.7712991	6065,929	9.7828973	6226,979	9.7942774	51
51	5750,105	9.7596758	5908,731	9.7714942	6068,603	9.7830888	6229,673	9.7944653	52
52	5752,738	9.7598746	5911,385	9.7716893	6071,278	9.7832801	6232,366	9.7946531	53
53	5755,372	9.7600734	5914,040	9.7718843	6073,953	9.7834715	6235,062	9.7948408	54
54	5758,006	9.7602721	5916,695	9.7720792	6076,629	9.7836627	6237,757	9.7950285	55
55	5760,640	9.7604707	5919,351	9.7722741	6079,305	9.7838539	6240,453	9.7952161	56
56	5763,275	9.7606693	5922,006	9.7724689	6081,981	9.7840450	6243,148	9.7954037	57
57	5765,910	9.7608679	5924,663	9.7726636	6084,657	9.7842361	6245,844	9.7955912	58
58	5768,545	9.7610663	5927,319	9.7728583	6087,334	9.7844271	6248,541	9.7957786	59
59	5771,181	9.7612647	5929,976	9.7730530	6090,011	9.7846181	6251,237	9.7959660	60
60	5773,817	9.7614630	5932,634	9.7732475	6092,689	9.7848090	6253,934	9.7961533	61

Min.	68 Deg.		69 Deg.		70 Deg.		71 Deg.		Min.
	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	N.V. line	L. Ver. line	
0	62.53,934	9.7961533	64.16,321	9.8072860	65.79,799	9.8182126	67.44,318	9.8289381	0
1	62.56,631	9.7963406	64.19,036	9.8074698	65.82,532	9.8183930	67.47,069	9.8291152	1
2	62.59,329	9.7965278	64.21,752	9.8076536	65.85,266	9.8185733	67.49,820	9.8292922	2
3	62.62,027	9.7967149	64.24,469	9.8078372	65.88,000	9.8187536	67.52,571	9.8294691	3
4	62.64,725	9.7969020	64.27,186	9.8080208	65.90,735	9.8189338	67.55,322	9.8296461	4
5	62.67,423	9.7970890	64.29,903	9.8082044	65.93,469	9.8191140	67.58,074	9.8298224	5
6	62.70,122	9.7972760	64.32,620	9.8083879	65.96,204	9.8192941	67.60,826	9.8299997	6
7	62.72,821	9.7974629	64.35,338	9.8085713	65.98,940	9.8194742	67.63,578	9.8301765	7
8	62.75,521	9.7976498	64.38,056	9.8087547	66.01,675	9.8196542	67.66,330	9.8303532	8
9	62.78,220	9.7978366	64.40,774	9.8089383	66.04,411	9.8198341	67.69,083	9.8305299	9
10	62.80,921	9.7980233	64.43,492	9.8091213	66.07,146	9.8200140	67.71,836	9.8307064	10
11	62.83,621	9.7982100	64.46,211	9.8093045	66.09,884	9.8201938	67.74,589	9.8308830	11
12	62.86,322	9.7983966	64.48,930	9.8094877	66.12,621	9.8203736	67.77,343	9.8310595	12
13	62.89,023	9.7985832	64.51,650	9.8096708	66.15,358	9.8205533	67.80,097	9.8312358	13
14	62.91,724	9.7987697	64.54,370	9.8098538	66.18,095	9.8207330	67.82,851	9.8314123	14
15	62.94,426	9.7989561	64.57,090	9.8100368	66.20,833	9.8209126	67.85,605	9.8315886	15
16	62.97,128	9.7991425	64.59,810	9.8102197	66.23,571	9.8210922	67.88,360	9.8317645	16
17	62.99,830	9.7993288	64.62,531	9.8104026	66.26,309	9.8212717	67.91,115	9.8319411	17
18	63.02,532	9.7995151	64.65,252	9.8105854	66.29,047	9.8214511	67.93,870	9.8321172	18
19	63.05,235	9.7997013	64.67,973	9.8107682	66.31,786	9.8216305	67.96,626	9.8322933	19
20	63.07,939	9.7998878	64.70,694	9.8109509	66.34,525	9.8218099	67.99,381	9.8324694	20
21	63.10,642	9.8000735	64.73,416	9.8111335	66.37,265	9.8219891	68.02,137	9.8326454	21
22	63.13,346	9.8002595	64.76,138	9.8113161	66.40,004	9.8221684	68.04,894	9.8328213	22
23	63.16,050	9.8004456	64.78,861	9.8114986	66.42,744	9.8223478	68.07,650	9.8329972	23
24	63.18,754	9.8006315	64.81,584	9.8116811	66.45,484	9.8225276	68.10,407	9.8331731	24
25	63.21,459	9.8008173	64.84,307	9.8118635	66.48,225	9.8227057	68.13,164	9.8333488	25
26	63.24,164	9.8010031	64.87,030	9.8120459	66.50,966	9.8228847	68.15,921	9.8335246	26
27	63.26,870	9.8011889	64.89,754	9.8122282	66.53,707	9.8230636	68.18,679	9.8337002	27
28	63.29,575	9.8013746	64.92,477	9.8124104	66.56,448	9.8232425	68.21,437	9.8338759	28
29	63.32,281	9.8015602	64.95,202	9.8125926	66.59,190	9.8234214	68.24,195	9.8340514	29
30	63.34,988	9.8017458	64.97,926	9.8127748	66.61,931	9.8236002	68.26,953	9.8342269	30
31	63.37,694	9.8019313	65.00,651	9.8129569	66.64,674	9.8237789	68.29,712	9.8344024	31
32	63.40,401	9.8021166	65.03,376	9.8131389	66.67,416	9.8239576	68.32,471	9.8345778	32
33	63.43,109	9.8023021	65.06,102	9.8133208	66.70,159	9.8241362	68.35,230	9.8347532	33
34	63.45,816	9.8024875	65.08,827	9.8135027	66.72,902	9.8243147	68.37,990	9.8349285	34
35	63.48,524	9.8026728	65.11,553	9.8136846	66.75,645	9.8244932	68.40,750	9.8351037	35
36	63.51,232	9.8028580	65.14,280	9.8138664	66.78,389	9.8246717	68.43,510	9.8352789	36
37	63.53,941	9.8030432	65.17,006	9.8140481	66.81,133	9.8248501	68.46,270	9.8354540	37
38	63.56,649	9.8032283	65.19,733	9.8142298	66.83,877	9.8250284	68.49,031	9.8356291	38
39	63.59,359	9.8034133	65.22,460	9.8144114	66.86,621	9.8252067	68.51,791	9.8358041	39
40	63.62,068	9.8035983	65.25,188	9.8145930	66.89,366	9.8253845	68.54,552	9.8359791	40
41	63.64,778	9.8037832	65.27,915	9.8147745	66.92,111	9.8255631	68.57,314	9.8361540	41
42	63.67,488	9.8039681	65.30,643	9.8149560	66.94,856	9.8257412	68.60,075	9.8363289	42
43	63.70,198	9.8041525	65.33,372	9.8151374	66.97,602	9.8259193	68.62,837	9.8365037	43
44	63.72,909	9.8043377	65.36,100	9.8153187	67.00,347	9.8260973	68.65,600	9.8366785	44
45	63.75,620	9.8045224	65.38,829	9.8155000	67.03,094	9.8262753	68.68,362	9.8368532	45
46	63.78,331	9.8047070	65.41,559	9.8156812	67.05,840	9.8264532	68.71,125	9.8370278	46
47	63.81,042	9.8048916	65.44,288	9.8158624	67.08,587	9.8266310	68.73,888	9.8372024	47
48	63.83,754	9.8050762	65.47,018	9.8160435	67.11,334	9.8268088	68.76,651	9.8373770	48
49	63.86,466	9.8052605	65.49,748	9.8162246	67.14,081	9.8269866	68.79,414	9.8375515	49
50	63.89,179	9.8054451	65.52,479	9.8164056	67.16,828	9.8271642	68.82,178	9.8377259	50
51	63.91,892	9.8056294	65.55,209	9.8165866	67.19,576	9.8273419	68.84,942	9.8379003	51
52	63.94,605	9.8058137	65.57,940	9.8167675	67.22,324	9.8275194	68.87,706	9.8380746	52
53	63.97,318	9.8059980	65.60,671	9.8169483	67.25,072	9.8276970	68.90,471	9.8382489	53
54	64.00,032	9.8061821	65.63,403	9.8171291	67.27,821	9.8278744	68.93,236	9.8384231	54
55	64.02,746	9.8063663	65.66,135	9.8173098	67.30,570	9.8280518	68.96,001	9.8385973	55
56	64.05,460	9.8065503	65.68,867	9.8174905	67.33,319	9.8282292	68.98,766	9.8387714	56
57	64.08,175	9.8067344	65.71,600	9.8176711	67.36,066	9.8284065	69.01,532	9.8389455	57
58	64.10,890	9.8069185	65.74,332	9.8178516	67.38,818	9.8285833	69.04,298	9.8391195	58
59	64.13,605	9.8071022	65.77,065	9.8180322	67.41,566	9.8287609	69.07,064	9.8392935	59
60	64.16,321	9.8072860	65.79,799	9.8182126	67.44,311	9.8289381	69.09,830	9.8394674	60

Min.	72 Deg.		73 Deg.		74 Deg.		75 Deg.		Min.
	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	N.V. fine	L.Ver.fine	
0	6909,330	9.8394672	7076,283	9.8498052	7243,626	9.8599560	7411,810	9.8699243	0
1	6912,597	9.8396414	7079,065	9.8499759	7246,423	9.8601237	7414,619	9.8700889	1
2	6915,364	9.8398150	7081,847	9.8501465	7249,219	9.8602912	7417,430	9.8702534	2
3	6918,131	9.8399888	7084,629	9.8503171	7252,016	9.8604588	7420,240	9.8704179	3
4	6920,898	9.8401625	7087,412	9.8504877	7254,813	9.8606262	7423,050	9.8705824	4
5	6923,666	9.8403361	7090,195	9.8506582	7257,610	9.8607936	7425,861	9.8707468	5
6	6926,434	9.8405097	7092,978	9.8508286	7260,408	9.8609610	7428,672	9.8709112	6
7	6929,202	9.8406832	7095,761	9.8509990	7263,206	9.8611283	7431,483	9.8710755	7
8	6931,970	9.8408567	7098,545	9.8511693	7266,003	9.8612956	7434,295	9.8712398	8
9	6934,739	9.8410301	7101,329	9.8513396	7268,802	9.8614628	7437,106	9.8714040	9
10	6937,508	9.8412035	7104,113	9.8515099	7271,600	9.8616300	7439,918	9.8715682	10
11	6940,277	9.8413768	7106,897	9.8516800	7274,399	9.8617971	7442,730	9.8717323	11
12	6943,047	9.8415501	7109,682	9.8518502	7277,198	9.8619642	7445,542	9.8718963	12
13	6945,817	9.8417233	7112,467	9.8520203	7279,997	9.8621312	7448,355	9.8720604	13
14	6948,587	9.8418965	7115,252	9.8521903	7282,796	9.8622981	7451,168	9.8722243	14
15	6951,357	9.8420696	7118,037	9.8523603	7285,596	9.8624651	7453,981	9.8723883	15
16	6954,128	9.8422427	7120,823	9.8525302	7288,395	9.8626319	7456,794	9.8725521	16
17	6956,898	9.8424157	7123,609	9.8527001	7291,195	9.8627987	7459,607	9.8727159	17
18	6959,669	9.8425886	7126,395	9.8528699	7293,996	9.8629655	7462,421	9.8728797	18
19	6962,441	9.8427615	7129,181	9.8530396	7296,796	9.8631322	7465,234	9.8730434	19
20	6965,212	9.8429344	7131,968	9.8532094	7299,597	9.8632989	7468,048	9.8732071	20
21	6967,984	9.8431072	7134,754	9.8533790	7302,398	9.8634655	7470,863	9.8733707	21
22	6970,756	9.8432799	7137,542	9.8535486	7305,199	9.8636320	7473,677	9.8735343	22
23	6973,529	9.8434526	7140,329	9.8537182	7308,000	9.8637986	7476,492	9.8736978	23
24	6976,301	9.8436252	7143,116	9.8538877	7310,802	9.8639650	7479,306	9.8738613	24
25	6979,074	9.8437978	7145,904	9.8540572	7313,604	9.8641314	7482,121	9.8740248	25
26	6981,847	9.8439703	7148,692	9.8542266	7316,406	9.8642978	7484,937	9.8741881	26
27	6984,620	9.8441428	7151,480	9.8543959	7319,208	9.8644641	7487,752	9.8743515	27
28	6987,394	9.8443152	7154,269	9.8545653	7322,011	9.8646303	7490,568	9.8745147	28
29	6990,168	9.8444876	7157,058	9.8547345	7324,813	9.8647966	7493,384	9.8746780	29
30	6992,942	9.8446599	7159,847	9.8549037	7327,616	9.8649627	7496,200	9.8748412	30
31	6995,716	9.8448322	7162,636	9.8550729	7330,419	9.8651288	7499,016	9.8750043	31
32	6998,491	9.8450044	7165,425	9.8552420	7333,223	9.8652945	7501,833	9.8751674	32
33	7001,266	9.8451766	7168,215	9.8554110	7336,027	9.8654609	7504,650	9.8753304	33
34	7004,041	9.8453487	7171,005	9.8555800	7338,830	9.8656269	7507,467	9.8754934	34
35	7006,816	9.8455207	7173,795	9.8557490	7341,634	9.8657928	7510,284	9.8756563	35
36	7009,592	9.8456927	7176,585	9.8559179	7344,439	9.8659586	7513,101	9.8758192	36
37	7012,368	9.8458647	7179,376	9.8560867	7347,243	9.8661244	7515,919	9.8759821	37
38	7015,144	9.8460366	7182,167	9.8562555	7350,048	9.8662902	7518,737	9.8761449	38
39	7017,921	9.8462084	7184,958	9.8564242	7352,853	9.8664559	7521,555	9.8763076	39
40	7020,697	9.8463802	7187,749	9.8565929	7355,658	9.8666216	7524,373	9.8764703	40
41	7023,474	9.8465520	7190,541	9.8567616	7358,464	9.8667872	7527,191	9.8766329	41
42	7026,251	9.8467237	7193,333	9.8569302	7361,270	9.8669527	7530,010	9.8767955	42
43	7029,029	9.8468953	7196,125	9.8570987	7364,075	9.8671182	7532,829	9.8769581	43
44	7031,806	9.8470669	7198,917	9.8572672	7366,882	9.8672837	7535,648	9.8771206	44
45	7034,584	9.8472384	7201,710	9.8574356	7369,688	9.8674491	7538,467	9.8772830	45
46	7037,362	9.8474099	7204,503	9.8576040	7372,494	9.8676145	7541,287	9.8774454	46
47	7040,141	9.8475813	7207,296	9.8577723	7375,301	9.8677798	7544,106	9.8776078	47
48	7042,919	9.8477527	7210,089	9.8579406	7378,108	9.8679450	7546,926	9.8777701	48
49	7045,698	9.8479240	7212,882	9.8581089	7380,915	9.8681102	7549,746	9.8779324	49
50	7048,478	9.8480953	7215,676	9.8582770	7383,723	9.8682754	7552,567	9.8780946	50
51	7051,257	9.8482666	7218,470	9.8584452	7386,531	9.8684405	7555,388	9.8782568	51
52	7054,037	9.8484377	7221,264	9.8586132	7389,338	9.8686056	7558,208	9.8784188	52
53	7056,817	9.8486088	7224,059	9.8587813	7392,147	9.8687706	7561,029	9.8785808	53
54	7059,597	9.8487799	7226,853	9.8589492	7394,955	9.8689355	7563,850	9.8787429	54
55	7062,377	9.8489509	7229,648	9.8591172	7397,763	9.8691004	7566,671	9.8789049	55
56	7065,158	9.8491219	7232,444	9.8592851	7400,572	9.8692653	7569,493	9.8790668	56
57	7067,939	9.8492928	7235,239	9.8594529	7403,381	9.8694301	7572,315	9.8792286	57
58	7070,720	9.8494636	7238,035	9.8596206	7406,190	9.8695949	7575,137	9.8793905	58
59	7073,501	9.8496344	7240,830	9.8597884	7409,000	9.8697596	7577,959	9.8795522	59
60	7076,283	9.8498052	7243,626	9.8599560	7411,810	9.8699243	7580,781	9.8797140	60

Min.	76 Deg.		77 Deg.		78 Deg.		79 Deg.		Min.
	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	N.V. fine	L. Ver. fine	
0	7580,781	9.8797140	7750,489	9.8893291	7920,883	9.8987730	8091,910	9.9080510	0
1	7583,604	9.8798756	7753,324	9.8894879	7923,728	9.8989296	8094,766	9.9082043	1
2	7586,426	9.8800372	7756,158	9.8896467	7926,574	9.8990855	8097,621	9.9083575	2
3	7589,249	9.8801988	7758,993	9.8898054	7929,420	9.8992414	8100,477	9.9085106	3
4	7592,073	9.8803604	7761,828	9.8899640	7932,266	9.8993973	8103,333	9.9086637	4
5	7594,896	9.8805218	7764,663	9.8901226	7935,112	9.8995531	8106,189	9.9088167	5
6	7597,720	9.8806833	7767,499	9.8902812	7937,958	9.8997088	8109,046	9.9089697	6
7	7600,543	9.8808446	7770,334	9.8904397	7940,805	9.8998645	8111,902	9.9091227	7
8	7603,367	9.8810060	7773,170	9.8905982	7943,651	9.8990202	8114,759	9.9092756	8
9	7606,192	9.8811673	7776,006	9.8907566	7946,498	9.9001758	8117,615	9.9094285	9
10	7609,016	9.8813285	7778,842	9.8909150	7949,345	9.9003313	8120,472	9.9095813	10
11	7611,841	9.8814897	7781,679	9.8910733	7952,192	9.9004869	8123,330	9.9097341	11
12	7614,665	9.8816508	7784,515	9.8912316	7955,039	9.9006423	8126,187	9.9098868	12
13	7617,490	9.8818119	7787,352	9.8913898	7957,887	9.9007978	8129,044	9.9100395	13
14	7620,316	9.8819730	7790,189	9.8915480	7960,735	9.9009531	8131,902	9.9101921	14
15	7623,141	9.8821340	7793,026	9.8917061	7963,582	9.9011085	8134,760	9.9103447	15
16	7625,967	9.8822949	7795,863	9.8918642	7966,431	9.9012638	8137,618	9.9104973	16
17	7628,793	9.8824558	7798,700	9.8920222	7969,279	9.9014190	8140,476	9.9106498	17
18	7631,619	9.8826167	7801,538	9.8921802	7972,127	9.9015742	8143,334	9.9108022	18
19	7634,445	9.8827775	7804,376	9.8923382	7974,976	9.9017294	8146,192	9.9109547	19
20	7637,271	9.8829382	7807,214	9.8924961	7977,824	9.9018845	8149,051	9.9111070	20
21	7640,098	9.8830989	7810,052	9.8926539	7980,673	9.9020395	8151,909	9.9112593	21
22	7642,925	9.8832596	7812,890	9.8928117	7983,522	9.9021945	8154,768	9.9114116	22
23	7645,752	9.8834202	7815,729	9.8929695	7986,371	9.9023495	8157,627	9.9115639	23
24	7648,579	9.8835807	7818,568	9.8931272	7989,221	9.9025044	8160,486	9.9117161	24
25	7651,406	9.8837413	7821,407	9.8932849	7992,070	9.9026593	8163,346	9.9118682	25
26	7654,234	9.8839017	7824,246	9.8934425	7994,920	9.9028141	8166,205	9.9120203	26
27	7657,062	9.8840621	7827,085	9.8936000	7997,770	9.9029689	8169,065	9.9121723	27
28	7659,890	9.8842225	7829,924	9.8937576	8000,620	9.9031236	8171,925	9.9123244	28
29	7662,718	9.8843828	7832,764	9.8939150	8003,470	9.9032783	8174,785	9.9124763	29
30	7665,546	9.8845431	7835,604	9.8940725	8006,321	9.9034330	8177,645	9.9126282	30
31	7668,375	9.8847033	7838,444	9.8942299	8009,171	9.9035876	8180,505	9.9127801	31
32	7671,204	9.8848635	7841,284	9.8943872	8012,022	9.9037421	8183,365	9.9129319	32
33	7674,033	9.8850236	7844,124	9.8945445	8014,873	9.9038966	8186,226	9.9130837	33
34	7676,862	9.8851837	7846,965	9.8947017	8017,724	9.9040511	8189,087	9.9132355	34
35	7679,691	9.8853438	7849,806	9.8948589	8020,575	9.9042055	8191,948	9.9133872	35
36	7682,521	9.8855038	7852,647	9.8950161	8023,427	9.9043599	8194,809	9.9135388	36
37	7685,351	9.8856637	7855,488	9.8951732	8026,278	9.9045142	8197,670	9.9136904	37
38	7688,181	9.8858236	7858,329	9.8953302	8029,130	9.9046685	8200,531	9.9138420	38
39	7691,011	9.8859834	7861,171	9.8954872	8031,982	9.9048227	8203,393	9.9139935	39
40	7693,841	9.8861432	7864,012	9.8956442	8034,834	9.9049769	8206,254	9.9141450	40
41	7696,672	9.8863030	7866,854	9.8958011	8037,686	9.9051310	8209,116	9.9142964	41
42	7699,503	9.8864627	7869,696	9.8959580	8040,539	9.9052851	8211,978	9.9144478	42
43	7702,334	9.8866223	7872,538	9.8961148	8043,391	9.9054392	8214,840	9.9145991	43
44	7705,165	9.8867819	7875,381	9.8962716	8046,244	9.9055932	8217,702	9.9147504	44
45	7707,996	9.8869415	7878,223	9.8964283	8049,097	9.9057471	8220,565	9.9149016	45
46	7710,828	9.8871010	7881,066	9.8965850	8051,950	9.9059011	8223,427	9.9150528	46
47	7713,659	9.8872605	7883,909	9.8967416	8054,803	9.9060549	8226,290	9.9152040	47
48	7716,491	9.8874199	7886,752	9.8968982	8057,656	9.9062087	8229,153	9.9153551	48
49	7719,323	9.8875792	7889,595	9.8970547	8060,510	9.9063625	8232,016	9.9155062	49
50	7722,156	9.8877386	7892,439	9.8972112	8063,364	9.9065163	8234,879	9.9156572	50
51	7724,988	9.8878978	7895,282	9.8973677	8066,218	9.9066699	8237,742	9.9158082	51
52	7727,821	9.8880571	7898,126	9.8975241	8069,072	9.9068236	8240,605	9.9159591	52
53	7730,654	9.8882162	7900,970	9.8976804	8071,926	9.9069772	8243,469	9.9161100	53
54	7733,487	9.8883754	7903,814	9.8978367	8074,780	9.9071307	8246,333	9.9162609	54
55	7736,320	9.8885344	7906,659	9.8979930	8077,633	9.9072842	8249,197	9.9164117	55
56	7739,154	9.8886935	7909,503	9.8981492	8080,490	9.9074377	8252,061	9.9165624	56
57	7741,987	9.8888525	7912,348	9.8983054	8083,344	9.9075911	8254,925	9.9167131	57
58	7744,821	9.8890114	7915,193	9.8984615	8086,199	9.9077445	8257,789	9.9168638	58
59	7747,655	9.8891703	7918,038	9.8986176	8089,055	9.9078978	8260,654	9.9170144	59
60	7750,489	9.8893291	7920,883	9.8987736	8091,910	9.9080510	8263,518	9.9171650	60

Min.	80 Deg.		81 Deg.		82 Deg.		83 Deg.		Min.
	N.V. fine	L.Ver. fine	N.V. fine	L.Ver. fine	N.V. fine	L.Ver. fine	N.V. fine	L.Ver. fine	
0	8263,518	9.9171650	8435,655	9.9261188	8608,269	9.9349158	8781,307	9.9435591	1
1	8266,383	9.9173155	8438,528	9.9262667	8611,150	9.9350611	8784,194	9.9437019	2
2	8269,248	9.9174660	8441,402	9.9264146	8614,030	9.9352064	8787,081	9.9438446	3
3	8272,113	9.9176165	8444,275	9.9265624	8616,911	9.9353516	8789,969	9.9439873	4
4	8274,978	9.9177669	8447,149	9.9267101	8619,792	9.9354968	8792,856	9.9441300	5
5	8277,844	9.9179172	8450,022	9.9268579	8622,673	9.9356419	8795,744	9.9442726	6
6	8280,709	9.9180675	8452,896	9.9270055	8625,555	9.9357870	8798,632	9.9444151	7
7	8283,575	9.9182178	8455,770	9.9271532	8628,436	9.9359321	8801,519	9.9445577	8
8	8286,440	9.9183680	8458,644	9.9273008	8631,317	9.9360771	8804,407	9.9447001	9
9	8289,306	9.9185182	8461,518	9.9274483	8634,199	9.9362220	8807,296	9.9448426	10
10	8292,172	9.9186683	8464,393	9.9275958	8637,081	9.9363670	8810,184	9.9449850	11
11	8295,039	9.9188184	8467,267	9.9277433	8639,962	9.9365119	8813,072	9.9451273	12
12	8297,905	9.9189685	8470,142	9.9278907	8642,844	9.9366567	8815,960	9.9452696	13
13	8300,772	9.9191185	8473,016	9.9280380	8645,726	9.9368015	8818,849	9.9454119	14
14	8303,638	9.9192684	8475,891	9.9281854	8648,608	9.9369462	8821,737	9.9455543	15
15	8306,505	9.9194183	8478,766	9.9283327	8651,491	9.9370909	8824,626	9.9456966	16
16	8309,372	9.9195682	8481,641	9.9284799	8654,373	9.9372356	8827,515	9.9458388	17
17	8312,239	9.9197180	8484,516	9.9286271	8657,256	9.9373802	8830,404	9.9459810	18
18	8315,106	9.9198678	8487,392	9.9287743	8660,138	9.9375248	8833,293	9.9461226	19
19	8317,974	9.9200175	8490,267	9.9289214	8663,021	9.9376694	8836,182	9.9462646	20
20	8320,841	9.9201672	8493,143	9.9290684	8665,904	9.9378139	8839,071	9.9464066	21
21	8323,709	9.9203169	8496,019	9.9292155	8668,787	9.9379583	8841,960	9.9465480	22
22	8326,577	9.9204665	8498,894	9.9293624	8671,670	9.9381027	8844,849	9.9466894	23
23	8329,444	9.9206160	8501,770	9.9295094	8674,553	9.9382471	8847,739	9.9468303	24
24	8332,313	9.9207656	8504,647	9.9296563	8677,436	9.9383914	8850,628	9.9469741	25
25	8335,181	9.9209150	8507,523	9.9298031	8680,319	9.9385357	8853,518	9.9471159	26
26	8338,049	9.9210644	8510,399	9.9299499	8683,203	9.9386800	8856,408	9.9472576	27
27	8340,918	9.9212138	8513,276	9.9300967	8686,087	9.9388242	8859,298	9.9473993	28
28	8343,786	9.9213632	8516,152	9.9302434	8688,970	9.9389683	8862,188	9.9475409	29
29	8346,655	9.9215125	8519,029	9.9303901	8691,854	9.9391124	8865,078	9.9476826	30
30	8349,524	9.9216617	8521,906	9.9305367	8694,738	9.9392565	8867,968	9.9478241	31
31	8352,393	9.9218109	8524,783	9.9306833	8697,622	9.9394005	8870,858	9.9479650	32
32	8355,262	9.9219601	8527,660	9.9308299	8700,506	9.9395445	8873,748	9.9481071	33
33	8358,132	9.9221092	8530,537	9.9309764	8703,391	9.9396885	8876,639	9.9482486	34
34	8361,001	9.9222583	8533,415	9.9311228	8706,275	9.9398324	8879,529	9.9483903	35
35	8363,871	9.9224073	8536,292	9.9312693	8709,159	9.9399762	8882,420	9.9485313	36
36	8366,740	9.9225563	8539,170	9.9314156	8712,044	9.9401201	8885,311	9.9486726	37
37	8369,610	9.9227052	8542,047	9.9315620	8714,929	9.9402638	8888,201	9.9488139	38
38	8372,480	9.9228541	8544,925	9.9317083	8717,814	9.9404076	8891,092	9.9489553	39
39	8375,350	9.9230030	8547,803	9.9318545	8720,698	9.9405513	8893,983	9.9490963	40
40	8378,221	9.9231518	8550,681	9.9320007	8723,584	9.9406949	8896,874	9.9492373	41
41	8381,091	9.9233006	8553,560	9.9321469	8726,469	9.9408385	8899,766	9.9493784	42
42	8383,962	9.9234493	8556,438	9.9322930	8729,354	9.9409821	8902,657	9.9495194	43
43	8386,833	9.9235980	8559,316	9.9324391	8732,239	9.9411256	8905,548	9.9496607	44
44	8389,703	9.9237466	8562,195	9.9325851	8735,125	9.9412691	8908,440	9.9498016	45
45	8392,574	9.9238952	8565,074	9.9327311	8738,010	9.9414126	8911,331	9.9499426	46
46	8395,445	9.9240437	8567,953	9.9328771	8740,896	9.9415560	8914,223	9.9500835	47
47	8398,317	9.9241922	8570,832	9.9330230	8743,782	9.9416993	8917,115	9.9502243	48
48	8401,188	9.9243407	8573,711	9.9331688	8746,668	9.9418426	8920,006	9.9503652	49
49	8404,060	9.9244891	8576,590	9.9333146	8749,554	9.9419859	8922,898	9.9505059	50
50	8406,931	9.9246375	8579,469	9.9334604	8752,440	9.9421291	8925,790	9.9506467	51
51	8409,803	9.9247858	8582,349	9.9336062	8755,326	9.9422723	8928,682	9.9507874	52
52	8412,675	9.9249341	8585,228	9.9337518	8758,212	9.9424155	8931,575	9.9509280	53
53	8415,547	9.9250824	8588,108	9.9338975	8761,099	9.9425586	8934,467	9.9510686	54
54	8418,419	9.9252306	8590,988	9.9340431	8763,985	9.9427016	8937,359	9.9512092	55
55	8421,292	9.9253787	8593,868	9.9341887	8766,872	9.9428447	8940,252	9.9513497	56
56	8424,164	9.9255268	8596,748	9.9343342	8769,759	9.9429876	8943,144	9.9514902	57
57	8427,037	9.9256749	8599,628	9.9344797	8772,645	9.9431306	8946,037	9.9516307	58
58	8429,909	9.9258229	8602,508	9.9346251	8775,532	9.9432735	8948,930	9.9517711	59
59	8432,782	9.9259709	8605,388	9.9347705	8778,419	9.9434163	8951,822	9.9519115	60
60	8435,655	9.9261188	8608,269	9.9349158	8781,307	9.9435591	8954,715	9.9520518	61

84 Deg.		85 Deg.		86 Deg.		87 Deg.		Min.
N.V. fine	L. Ver. fine	N.V. fin	L. Ver. fine	N.V. line	L. Ver. line	N.V. fine	L. Ver. line	
0 8954.71	9.9520518	9128.443	9.9603967	9302.435	9.9685967	9476.640	9.9766544	0
1 8957.668	9.9521921	9131.340	9.9605345	9305.337	9.9687321	9479.545	9.9767875	1
2 8960.501	9.9523323	9134.238	9.9606723	9308.239	9.9688675	9482.450	9.9769206	2
3 8963.395	9.9524725	9137.136	9.9608101	9311.141	9.9690029	9485.355	9.9770536	3
4 8966.288	9.9526127	9140.034	9.9609478	9314.043	9.9691382	9488.260	9.9771866	4
5 8969.181	9.9527528	9142.933	9.9610855	9316.945	9.9692735	9491.165	9.9773195	5
6 8972.075	9.9528925	9145.831	9.9612232	9319.847	9.9694088	9494.071	9.9774525	6
7 8974.968	9.9530329	9148.729	9.9613608	9322.749	9.9695440	9496.976	9.9775853	7
8 8977.862	9.9531729	9151.627	9.9614983	9325.651	9.9696792	9499.881	9.9777182	8
9 8980.755	9.9533129	9154.526	9.9616359	9328.554	9.9698143	9502.786	9.9778510	9
10 8983.649	9.9534528	9157.424	9.9617733	9331.456	9.9699494	9505.692	9.9779837	10
11 8986.543	9.9535927	9160.323	9.9619108	9334.359	9.9700845	9508.597	9.9781164	11
12 8989.437	9.9537325	9163.222	9.9620482	9337.261	9.9702195	9511.502	9.9782491	12
13 8992.331	9.9538723	9166.120	9.9621856	9340.164	9.9703545	9514.408	9.9783818	13
14 8995.225	9.9540120	9169.019	9.9623229	9343.066	9.9704894	9517.313	9.9785144	14
15 8998.119	9.9541518	9171.918	9.9624602	9345.969	9.9706243	9520.219	9.9786469	15
16 9001.014	9.9542914	9174.817	9.9625974	9348.871	9.9707592	9523.124	9.9787795	16
17 9003.908	9.9544311	9177.716	9.9627346	9351.774	9.9708940	9526.030	9.9789119	17
18 9006.803	9.9545706	9180.615	9.9628718	9354.677	9.9710288	9528.935	9.9790444	18
19 9009.697	9.9547102	9183.514	9.9630089	9357.580	9.9711635	9531.841	9.9791768	19
20 9012.592	9.9548497	9186.413	9.9631460	9360.483	9.9712982	9534.747	9.9793092	20
21 9015.486	9.9549892	9189.313	9.9632830	9363.386	9.9714329	9537.653	9.9794415	21
22 9018.381	9.9551286	9192.212	9.9634200	9366.289	9.9715675	9540.558	9.9795738	22
23 9021.276	9.9552680	9195.111	9.9635570	9369.192	9.9717021	9543.464	9.9797061	23
24 9024.171	9.9554073	9198.011	9.9636939	9372.095	9.9718367	9546.370	9.9798383	24
25 9027.066	9.9555466	9200.910	9.9638308	9374.998	9.9719712	9549.276	9.9799704	25
26 9029.961	9.9556859	9203.810	9.9639676	9377.901	9.9721057	9552.182	9.9801026	26
27 9032.856	9.9558251	9206.710	9.9641044	9380.804	9.9722401	9555.088	9.9802347	27
28 9035.752	9.9559643	9209.609	9.9642412	9383.708	9.9723745	9557.994	9.9803668	28
29 9038.647	9.9561034	9212.509	9.9643779	9386.611	9.9725088	9560.900	9.9804988	29
30 9041.542	9.9562425	9215.409	9.9645146	9389.515	9.9726431	9563.806	9.9806308	30
31 9044.438	9.9563816	9218.309	9.9646513	9392.418	9.9727774	9566.712	9.9807627	31
32 9047.334	9.9565206	9221.209	9.9647879	9395.322	9.9729117	9569.618	9.9808946	32
33 9050.229	9.9566596	9224.109	9.9649244	9398.225	9.9730458	9572.525	9.9810265	33
34 9053.125	9.9567985	9227.009	9.9650610	9401.129	9.9731800	9575.431	9.9811583	34
35 9056.021	9.9569374	9229.909	9.9651974	9404.033	9.9733141	9578.337	9.9812901	35
36 9058.917	9.9570763	9232.810	9.9653339	9406.936	9.9734482	9581.243	9.9814219	36
37 9061.813	9.9572151	9235.710	9.9654703	9409.840	9.9735822	9584.150	9.9815537	37
38 9064.709	9.9573539	9238.610	9.9656067	9412.744	9.9737162	9587.056	9.9816853	38
39 9067.605	9.9574926	9241.511	9.9657430	9415.648	9.9738502	9589.963	9.9818169	39
40 9070.501	9.9576313	9244.411	9.9658793	9418.552	9.9739841	9592.869	9.9819485	40
41 9073.398	9.9577699	9247.312	9.9660155	9421.456	9.9741180	9595.776	9.9820801	41
42 9076.294	9.9579086	9250.213	9.9661517	9424.360	9.9742519	9598.682	9.9822116	42
43 9079.191	9.9580471	9253.113	9.9662879	9427.264	9.9743857	9601.589	9.9823431	43
44 9082.087	9.9581857	9256.014	9.9664240	9430.168	9.9745194	9604.495	9.9824745	44
45 9084.984	9.9583242	9258.915	9.9665601	9433.072	9.9746532	9607.408	9.9826060	45
46 9087.881	9.9584626	9261.816	9.9666961	9435.976	9.9747868	9610.308	9.9827373	46
47 9090.777	9.9586010	9264.717	9.9668322	9438.881	9.9749205	9613.215	9.9828687	47
48 9093.674	9.9587394	9267.618	9.9669681	9441.785	9.9750541	9616.122	9.9830000	48
49 9096.571	9.9588777	9270.519	9.9671041	9444.689	9.9751877	9619.029	9.9831312	49
50 9099.468	9.9590160	9273.420	9.9672399	9447.594	9.9753212	9621.935	9.9832624	50
51 9102.365	9.9591543	9276.322	9.9673758	9450.498	9.9754547	9624.842	9.9833936	51
52 9105.262	9.9592925	9279.223	9.9675116	9453.403	9.9755882	9627.749	9.9835248	52
53 9108.160	9.9594306	9282.124	9.9676474	9456.307	9.9757216	9630.656	9.9836559	53
54 9111.057	9.9595688	9285.026	9.9677831	9459.212	9.9758550	9633.563	9.9837869	54
55 9113.954	9.9597066	9287.927	9.9679188	9462.117	9.9759883	9636.470	9.9839180	55
56 9116.852	9.9598449	9290.829	9.9680544	9465.021	9.9761216	9639.377	9.9840490	56
57 9119.749	9.9599829	9293.730	9.9681901	9467.926	9.9762549	9642.284	9.9841799	57
58 9122.647	9.9601209	9296.632	9.9683256	9470.831	9.9763881	9645.191	9.9843108	58
59 9125.545	9.9602588	9299.533	9.9684612	9473.736	9.9765213	9648.098	9.9844417	59
60 9128.443	9.9603967	9302.435	9.9685967	9476.640	9.9766544	9651.005	9.9845725	60

Min	88 Deg.		89 Deg.	
	N.V. line	L. Ver. line	N.V. line	L. Ver. line
0	9651,005	9.9845725	9825,476	9.9923536
1	9653,912	9.9847033	9828,384	9.9924821
2	9656,819	9.9848341	9831,293	9.9926106
3	9659,726	9.9849648	9834,201	9.9927391
4	9662,634	9.9850955	9837,110	9.9928675
5	9665,541	9.9852262	9840,018	9.9929959
6	9668,448	9.9853568	9842,927	9.9931243
7	9671,356	9.9854873	9845,835	9.9932526
8	9674,263	9.9856179	9848,744	9.9933808
9	9677,170	9.9857484	9851,652	9.9935091
10	9680,078	9.9858788	9854,561	9.9936373
11	9682,985	9.9860093	9857,470	9.9937654
12	9685,892	9.9861396	9860,378	9.9938936
13	9688,800	9.9862700	9863,287	9.9940217
14	9691,707	9.9864003	9866,195	9.9941497
15	9694,615	9.9865306	9869,104	9.9942777
16	9697,522	9.9866608	9872,013	9.9944057
17	9700,430	9.9867910	9874,921	9.9945336
18	9703,338	9.9869211	9877,830	9.9946615
19	9706,245	9.9870513	9880,739	9.9947894
20	9709,153	9.9871815	9883,647	9.9949172
21	9712,060	9.9873114	9886,556	9.9950450
22	9714,968	9.9874414	9889,465	9.9951728
23	9717,876	9.9875713	9892,373	9.9953005
24	9720,784	9.9877013	9895,282	9.9954282
25	9723,691	9.9878312	9898,191	9.9955558
26	9726,599	9.9879610	9901,100	9.9956834
27	9729,507	9.9880908	9904,008	9.9958110
28	9732,415	9.9882206	9906,917	9.9959385
29	9735,323	9.9883503	9909,826	9.9960660
30	9738,231	9.9884801	9912,735	9.9961935
31	9741,138	9.9886097	9915,643	9.9963209
32	9744,046	9.9887393	9918,552	9.9964483
33	9746,954	9.9888689	9921,461	9.9965756
34	9749,862	9.9889985	9924,370	9.9967029
35	9752,770	9.9891280	9927,279	9.9968302
36	9755,678	9.9892575	9930,187	9.9969574
37	9758,586	9.9893869	9933,096	9.9970846
38	9761,494	9.9895163	9936,005	9.9972118
39	9764,402	9.9896457	9938,914	9.9973389
40	9767,310	9.9897750	9941,823	9.9974660
41	9770,219	9.9899043	9944,732	9.9975931
42	9773,127	9.9900335	9947,640	9.9977201
43	9776,035	9.9901627	9950,549	9.9978471
44	9778,943	9.9902919	9953,458	9.9979740
45	9781,851	9.9904210	9956,367	9.9981009
46	9784,759	9.9905501	9959,276	9.9982278
47	9787,668	9.9906792	9962,185	9.9983546
48	9790,576	9.9908082	9965,093	9.9984814
49	9793,484	9.9909372	9968,002	9.9986081
50	9796,392	9.9910662	9970,911	9.9987348
51	9799,301	9.9911951	9973,820	9.9988615
52	9802,209	9.9913240	9976,729	9.9989882
53	9805,117	9.9914528	9979,638	9.9991148
54	9808,026	9.9915816	9982,547	9.9992414
55	9810,934	9.9917104	9985,456	9.9993679
56	9813,842	9.9918391	9988,364	9.9994944
57	9816,751	9.9919678	9991,273	9.9996208
58	9819,659	9.9920964	9994,182	9.9997473
59	9822,568	9.9922250	9997,091	9.9998737
60	9825,476	9.9923536	10000,000	10.0000000

A TABLE to convert Sexagesimals into Decimals, &c.					
	0	12	24	36	48
0	.003	.007	.01	.013	
1	.017	.02	.023	.027	.03
2	.033	.037	.04	.043	.047
3	.05	.053	.057	.06	.063
4	.067	.07	.073	.077	.08
5	.083	.087	.09	.093	.097
6	.1	.103	.107	.11	.113
7	.117	.12	.123	.127	.13
8	.133	.137	.14	.143	.147
9	.15	.153	.157	.16	.163
10	.167	.17	.173	.177	.18
11	.183	.187	.19	.193	.197
12	.2	.203	.207	.21	.213
13	.217	.22	.223	.227	.23
14	.233	.237	.24	.243	.247
15	.25	.253	.257	.26	.263
16	.267	.27	.273	.277	.28
17	.283	.287	.29	.293	.297
18	.3	.303	.307	.31	.313
19	.317	.32	.323	.327	.33
20	.333	.337	.34	.343	.347
21	.35	.353	.357	.36	.363
22	.367	.37	.373	.377	.38
23	.383	.387	.39	.393	.397
24	.4	.403	.407	.41	.413
25	.417	.42	.423	.427	.43
26	.433	.437	.44	.443	.447
27	.45	.453	.457	.46	.463
28	.467	.47	.473	.477	.48
29	.483	.487	.49	.493	.497
30	.5	.503	.507	.51	.513
31	.517	.52	.523	.527	.53
32	.533	.537	.54	.543	.547
33	.55	.553	.557	.56	.563
34	.567	.57	.573	.577	.58
35	.583	.587	.59	.593	.597
36	.6	.603	.607	.61	.613
37	.617	.62	.623	.627	.63
38	.633	.637	.64	.643	.647
39	.65	.653	.657	.66	.663
40	.667	.67	.673	.677	.68
41	.683	.687	.69	.693	.697
42	.7	.703	.707	.71	.713
43	.717	.72	.723	.727	.73
44	.733	.737	.74	.743	.747
45	.75	.753	.757	.76	.763
46	.767	.77	.773	.777	.78
47	.783	.787	.79	.793	.797
48	.8	.803	.807	.81	.813
49	.817	.82	.823	.827	.83
50	.833	.837	.84	.843	.847
51	.85	.853	.857	.86	.863
52	.867	.87	.873	.877	.88
53	.883	.887	.89	.893	.897
54	.9	.903	.907	.91	.913
55	.917	.92	.923	.927	.93
56	.933	.937	.94	.943	.947
57	.95	.953	.957	.96	.963
58	.967	.97	.973	.977	.98
59	.983	.987	.99	.993	.997

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A  
T A B L E  
O F  
Difference of Latitude,  
A N D  
D E P A R T U R E,  
To every degree, and quarter-point  
of the C O M P A S S,

\*\*\*\*\*

Course	Diff. 1		Diff. 2		Diff. 3		Diff. 4		Diff. 5		Course
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
1	0.9990	0.0175	1.9997	0.0349	2.9995	0.0524	3.9994	0.0698	4.9992	0.0873	89
2	0.9994	0.0349	1.9988	0.0698	2.9982	0.1047	3.9976	0.1396	4.9970	0.1745	88
3	0.9988	0.0491	1.9976	0.0981	2.9964	0.1472	3.9952	0.1963	4.9940	0.2453	7 1/2
4	0.9986	0.0523	1.9973	0.1047	2.9959	0.1570	3.9945	0.2093	4.9931	0.2617	87
5	0.9976	0.0698	1.9951	0.1395	2.9927	0.2093	3.9903	0.2790	4.9878	0.3458	86
6	0.9962	0.0872	1.9924	0.1743	2.9886	0.2615	3.9848	0.3486	4.9810	0.4301	85
7	0.9952	0.0980	1.9904	0.1960	2.9856	0.2840	3.9807	0.3921	4.9759	0.4950	7 1/2
8	0.9945	0.1045	1.9890	0.2091	2.9836	0.3130	3.9781	0.4181	4.9726	0.5221	84 1/2
9	0.9925	0.1219	1.9851	0.2437	2.9776	0.3656	3.9702	0.4875	4.9627	0.6093	83
10	0.9903	0.1392	1.9805	0.2783	2.9708	0.4175	3.9611	0.5567	4.9513	0.6955	82
11	0.9892	0.1467	1.9784	0.2935	2.9675	0.4402	3.9567	0.5869	4.9459	0.7337	7 1/4
12	0.9877	0.1564	1.9754	0.3129	2.9631	0.4693	3.9508	0.6257	4.9384	0.7822	81
13	0.9848	0.1736	1.9696	0.3473	2.9544	0.5209	3.9392	0.6940	4.9240	0.8682	80
14	0.9816	0.1908	1.9633	0.3816	2.9449	0.5724	3.9265	0.7632	4.9081	0.9546	79
15	0.9808	0.1951	1.9616	0.3902	2.9424	0.5853	3.9231	0.7804	4.9039	0.9754	7
16	0.9781	0.2079	1.9563	0.4158	2.9344	0.6237	3.9126	0.8316	4.8907	1.0390	78
17	0.9744	0.2250	1.9487	0.4499	2.9231	0.6749	3.8975	0.8998	4.8718	1.1248	77
18	0.9703	0.2415	1.9400	0.4838	2.9108	0.7258	3.8812	0.9677	4.8515	1.2096	76
19	0.9700	0.2430	1.9401	0.4860	2.9101	0.7289	3.8801	0.9719	4.8502	1.2149	6 1/4
20	0.9659	0.2588	1.9319	0.5176	2.8978	0.7765	3.8637	1.0353	4.8296	1.2941	75
21	0.9613	0.2756	1.9225	0.5513	2.8838	0.8269	3.8450	1.1028	4.8063	1.3782	74
22	0.9569	0.2903	1.9139	0.5806	2.8708	0.8709	3.8278	1.1611	4.7847	1.4514	6 1/2
23	0.9563	0.2924	1.9126	0.5847	2.8689	0.8771	3.8252	1.1695	4.7815	1.4619	73
24	0.9511	0.3090	1.9021	0.6180	2.8532	0.9271	3.8042	1.2361	4.7553	1.5451	72
25	0.9455	0.3256	1.8910	0.6511	2.8366	0.9767	3.7821	1.3023	4.7276	1.6278	71
26	0.9415	0.3369	1.8831	0.6738	2.8246	1.0107	3.7662	1.3476	4.7077	1.6844	6 1/4
27	0.9397	0.3420	1.8794	0.6840	2.8191	1.0261	3.7588	1.3681	4.6985	1.7101	70
28	0.9336	0.3584	1.8672	0.7167	2.8007	1.0751	3.7343	1.4335	4.6679	1.7918	69
29	0.9272	0.3740	1.8544	0.7492	2.7816	1.1238	3.7087	1.4984	4.6359	1.8739	68
30	0.9239	0.3827	1.8478	0.7654	2.7716	1.1480	3.6955	1.5307	4.6194	1.9134	6
31	0.9205	0.3907	1.8410	0.7815	2.7615	1.1722	3.6820	1.5629	4.6025	1.9537	67
32	0.9135	0.4067	1.8270	0.8135	2.7406	1.2202	3.6542	1.6269	4.5677	2.0337	66
33	0.9063	0.4220	1.8126	0.8452	2.7189	1.2679	3.6252	1.6905	4.5315	2.1131	65
34	0.9040	0.4270	1.8080	0.8551	2.7120	1.2827	3.6160	1.7102	4.5199	2.1378	5 1/4
35	0.8988	0.4384	1.7976	0.8767	2.6964	1.3151	3.5952	1.7535	4.4940	2.1919	64
36	0.8910	0.4544	1.7820	0.9080	2.6730	1.3620	3.5640	1.8160	4.4550	2.2693	63
37	0.8829	0.4695	1.7659	0.9389	2.6488	1.4084	3.5318	1.8779	4.4147	2.3474	62
38	0.8819	0.4714	1.7638	0.9428	2.6458	1.4142	3.5277	1.8850	4.4090	2.3570	5 1/2
39	0.8740	0.4848	1.7492	0.9696	2.6239	1.4544	3.4985	1.9392	4.3731	2.4240	61
40	0.8660	0.5000	1.7320	1.0000	2.5981	1.5000	3.4641	2.0000	4.3301	2.5000	60
41	0.8577	0.5141	1.7155	1.0282	2.5732	1.5423	3.4309	2.0564	4.2886	2.5705	5 1/4
42	0.8572	0.5150	1.7143	1.0301	2.5715	1.5451	3.4287	2.0602	4.2858	2.5752	59
43	0.8480	0.5295	1.6961	1.0598	2.5441	1.5896	3.3922	2.1197	4.2402	2.6496	58
44	0.8387	0.5440	1.6773	1.0893	2.5100	1.6339	3.3547	2.1786	4.1934	2.7232	57
45	0.8315	0.5550	1.6629	1.1111	2.4944	1.6607	3.3259	2.2223	4.1573	2.7778	5
46	0.8290	0.5592	1.6581	1.1184	2.4871	1.6776	3.3162	2.2368	4.1452	2.7960	56
47	0.8192	0.5730	1.6383	1.1472	2.4575	1.7207	3.2766	2.2943	4.0958	2.8679	55
48	0.8090	0.5872	1.6180	1.1756	2.4271	1.7634	3.2361	2.3511	4.0451	2.9389	54
49	0.8032	0.5957	1.6064	1.1914	2.4056	1.7871	3.2128	2.3828	4.0160	2.9785	4 1/4
50	0.7980	0.6018	1.5973	1.2036	2.3959	1.8054	3.1945	2.4073	3.9932	3.0091	53
51	0.7880	0.6157	1.5700	1.2313	2.3640	1.8470	3.1520	2.4620	3.9401	3.0783	52
52	0.7771	0.6293	1.5543	1.2586	2.3314	1.8880	3.1086	2.5173	3.8857	3.1466	51
53	0.7730	0.6344	1.5460	1.2688	2.3190	1.9032	3.0920	2.5376	3.8650	3.1720	4 1/2
54	0.7660	0.6428	1.5321	1.2856	2.2981	1.9284	3.0642	2.5712	3.8302	3.2139	50
55	0.7547	0.6561	1.5094	1.3121	2.2641	1.9682	3.0186	2.6242	3.7730	3.2803	49
56	0.7431	0.6695	1.4853	1.3383	2.2294	2.0074	2.9726	2.6765	3.7157	3.3457	4 1/4
57	0.7410	0.6716	1.4819	1.3431	2.2229	2.0147	2.9638	2.6862	3.7048	3.3578	4
58	0.7314	0.6820	1.4628	1.3640	2.1941	2.0460	2.9254	2.7280	3.6568	3.4100	47
59	0.7193	0.6947	1.4387	1.3894	2.1580	2.0840	2.8774	2.7786	3.5967	3.4733	46
60	0.7071	0.7071	1.4142	1.4142	2.1213	2.1213	2.8284	2.8284	3.5355	3.5355	45 1/4
Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.
Diff. 1	Diff. 2	Diff. 3	Diff. 4	Diff. 5							

Course	Diff. 6		Diff. 7		Diff. 8		Diff. 9		Diff. 10		Course	
	Pts.	D.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.		Pts.
O 1/4	1	5.9991	0.1047	5.9989	0.1222	7.9988	0.1396	8.9986	0.1571	9.9985	0.1745	89
	2	5.9963	0.2094	6.9957	0.2443	7.9951	0.2792	8.9945	0.3141	9.9939	0.3490	88
	3	5.9928	0.2944	6.9916	0.3435	7.9904	0.3923	8.9892	0.4416	9.9880	0.4907	87
	4	5.9918	0.3140	6.9904	0.3664	7.9890	0.4187	8.9877	0.4710	9.9863	0.5234	86
C 1/2	5	5.9854	0.4185	6.9825	0.4883	7.9805	0.5580	8.9781	0.6278	9.9756	0.6976	85
	6	5.9772	0.5229	6.9734	0.6101	7.9696	0.6972	8.9658	0.7844	9.9615	0.8716	84
	7	5.9711	0.5881	6.9663	0.6861	7.9615	0.7841	8.9567	0.8822	9.9518	0.9802	83
	8	5.9671	0.6272	6.9617	0.7317	7.9562	0.8362	8.9507	0.9408	9.9452	1.0453	82
O 3/4	9	5.9553	0.7312	6.9478	0.8531	7.9404	0.9750	8.9329	1.0968	9.9255	1.2187	81
	10	5.9410	0.8350	6.9319	0.9742	7.9221	1.1134	8.9124	1.2526	9.9027	1.3917	80
	11	5.9351	0.8804	6.9242	1.0271	7.9134	1.1738	8.9026	1.3206	9.8918	1.4674	79
	12	5.9261	0.9386	6.9138	1.0950	7.9015	1.2515	8.8892	1.4079	9.8769	1.5643	78
I 1	13	5.9088	1.0419	6.8937	1.2155	7.8785	1.3892	8.8633	1.5628	9.8481	1.7365	77
	14	5.8898	1.1449	6.8714	1.3357	7.8530	1.5265	8.8346	1.7173	9.8163	1.9081	76
	15	5.8847	1.1705	6.8655	1.3656	7.8403	1.5607	8.8271	1.7558	9.8079	1.9509	75
	16	5.8689	1.2473	6.8470	1.4554	7.8252	1.6633	8.8033	1.8712	9.7815	2.0791	74
I 1/4	17	5.8462	1.3497	6.8206	1.5740	7.7950	1.7990	8.7693	2.0246	9.7437	2.2495	73
	18	5.8218	1.4515	6.7921	1.6935	7.7624	1.9354	8.7327	2.1773	9.7030	2.4192	72
	19	5.8202	1.4579	6.7902	1.7009	7.7602	1.9436	8.7303	2.1868	9.7003	2.4293	71
	20	5.7956	1.5529	6.7615	1.8117	7.7274	2.0700	8.6933	2.3294	9.6593	2.5882	70
I 1/2	21	5.7676	1.6538	6.7288	1.9295	7.6901	2.2051	8.6513	2.4807	9.6120	2.7560	69
	22	5.7416	1.7417	6.6986	2.0320	7.6555	2.3223	8.6126	2.6126	9.5694	2.9021	68
	23	5.7378	1.7542	6.6941	2.0466	7.6504	2.3390	8.6067	2.6313	9.5630	2.9237	67
	24	5.7063	1.8541	6.6574	2.1631	7.6084	2.4721	8.5595	2.7812	9.5106	3.0902	66
I 3/4	25	5.6731	1.9534	6.6186	2.2790	7.5642	2.6045	8.5097	2.9301	9.4552	3.2555	65
	26	5.6493	2.0213	6.5908	2.3582	7.5324	2.6951	8.4739	3.0320	9.4154	3.3685	64
	27	5.6382	2.0521	6.5779	2.3941	7.5175	2.7362	8.4572	3.0782	9.3969	3.4202	63
	28	5.6015	2.1502	6.5351	2.5086	7.4686	2.8669	8.4022	3.2253	9.3358	3.5837	62
2	29	5.5693	2.2476	6.4903	2.6222	7.4175	2.9969	8.3447	3.3715	9.2718	3.7401	61
	30	5.5433	2.2961	6.4672	2.6788	7.3910	3.0615	8.3149	3.4441	9.2388	3.8261	60
	31	5.5230	2.3444	6.4435	2.7351	7.3640	3.1258	8.2845	3.5166	9.2050	3.9073	59
	32	5.4813	2.4404	6.3948	2.8472	7.3084	3.2539	8.2219	3.6006	9.1355	4.0674	58
2 1/4	33	5.4378	2.5357	6.3442	2.9583	7.2505	3.3809	8.1568	3.8030	9.0631	4.2262	57
	34	5.4239	2.5653	6.3279	2.9929	7.2319	3.4204	8.1359	3.8480	9.0399	4.2756	56
	35	5.3928	2.6302	6.2916	3.0686	7.1904	3.5070	8.0891	3.9453	8.9879	4.3837	55
	36	5.3460	2.7239	6.2370	3.1779	7.1280	3.6319	8.0191	4.0859	8.9101	4.5395	54
2 1/2	37	5.2977	2.8108	6.1806	3.2863	7.0636	3.7558	7.9465	4.2252	8.8295	4.6947	53
	38	5.2915	2.8284	6.1734	3.2998	7.0554	3.7712	7.9373	4.2426	8.8192	4.7140	52
	39	5.2477	2.9089	6.1223	3.3937	6.9970	3.8785	7.8716	4.3635	8.7462	4.8481	51
	40	5.1961	3.0000	6.0622	3.5000	6.9282	4.0000	7.7942	4.5000	8.6603	5.0000	50
2 3/4	41	5.1464	3.0846	6.0041	3.5987	6.8618	4.1128	7.7196	4.6269	8.5773	5.1410	49
	42	5.1430	3.0902	6.0002	3.6052	6.8573	4.1203	7.7145	4.6353	8.5717	5.1504	48
	43	5.0803	3.1793	5.9363	3.7094	6.7843	4.2394	7.6324	4.7693	8.4805	5.2992	47
	44	5.0320	3.2678	5.8707	3.8125	6.7094	4.3571	7.5480	4.9016	8.3867	5.4464	46
3	45	4.9888	3.3334	5.8203	3.8890	6.6518	4.4446	7.4832	5.0001	8.3147	5.5557	45
	46	4.9742	3.3552	5.8033	3.9144	6.6323	4.4735	7.4613	5.0327	8.2904	5.5915	44
	47	4.9149	3.4415	5.7341	4.0150	6.5532	4.5880	7.3724	5.1022	8.1915	5.7358	43
	48	4.8541	3.5267	5.6631	4.1145	6.4721	4.7023	7.2812	5.2091	8.0902	5.8779	42
3 1/4	49	4.8192	3.5742	5.6224	4.1699	6.4257	4.7650	7.2289	5.3013	8.0321	5.9570	41
	50	4.7918	3.6109	5.5904	4.2127	6.3891	4.8145	7.1877	5.4103	7.9804	6.0182	53
	51	4.7281	3.6940	5.5161	4.3096	6.3041	4.9253	7.0921	5.5405	7.8801	6.1560	52
	52	4.6629	3.7759	5.4400	4.4052	6.2172	5.0340	6.9943	5.6633	7.7715	6.2932	51
3 1/2	53	4.6381	3.8064	5.4111	4.4408	6.1841	5.0751	6.9571	5.7095	7.7301	6.3435	50
	54	4.5963	3.8507	5.3623	4.4995	6.1284	5.1423	6.8944	5.7851	7.6604	6.4275	49
	55	4.5283	3.9363	5.2830	4.5924	6.0377	5.2485	6.7924	5.9045	7.5471	6.5000	48
	56	4.4589	4.0148	5.2020	4.6839	5.9452	5.3530	6.6883	6.0222	7.4344	6.5991	47
3 3/4	57	4.4457	4.0294	5.1867	4.7009	5.9276	5.3725	6.6680	6.0440	7.4090	6.7150	46
	58	4.3881	4.0920	5.1195	4.7740	5.8508	5.4560	6.5822	6.1380	7.3135	6.8200	45
	59	4.3100	4.1679	5.0354	4.8626	5.7547	5.5573	6.4741	6.2515	7.1937	6.9400	44
	60	4.2420	4.2420	4.9497	4.9497	5.6509	5.6569	6.3640	6.3640	7.0711	7.0711	43
Pts.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Pts.	

**A T A B L E** of Rumbs, shewing the degrees, minutes, and seconds that every quarter-point of the *Compass* makes with the *Meridian*.

<i>North</i>		<i>Points</i>	<i>D.</i>	<i>M.</i>	<i>S.</i>	<i>South</i>	
<i>N. by E.</i>	<i>N. by W.</i>	0 $\frac{1}{4}$	2	48	45	<i>S. by E.</i>	<i>S. by W.</i>
		0 $\frac{1}{2}$	5	37	30		
		0 $\frac{3}{4}$	8	26	15		
		1	11	15	0		
<i>N. N. E.</i>	<i>N. N. W.</i>	1 $\frac{1}{4}$	14	3	45	<i>S. S. E.</i>	<i>S. S. W.</i>
		1 $\frac{1}{2}$	16	52	30		
		1 $\frac{3}{4}$	19	41	15		
		2	22	30	0		
<i>N. E. by N.</i>	<i>N. W. by N.</i>	2 $\frac{1}{4}$	25	18	45	<i>S. E. by S.</i>	<i>S. W. by S.</i>
		2 $\frac{1}{2}$	28	7	30		
		2 $\frac{3}{4}$	30	56	15		
		3	33	45	0		
<i>Nor. East</i>	<i>Nor. West</i>	3 $\frac{1}{4}$	36	33	45	<i>Sou. East</i>	<i>Sou. West</i>
		3 $\frac{1}{2}$	39	22	30		
		3 $\frac{3}{4}$	42	11	15		
		4	45	0	0		
<i>N. E. by E.</i>	<i>N. W. by W.</i>	4 $\frac{1}{4}$	47	48	45	<i>S. E. by E.</i>	<i>S. W. by W.</i>
		4 $\frac{1}{2}$	50	37	30		
		4 $\frac{3}{4}$	53	26	15		
		5	56	15	0		
<i>E. N. E.</i>	<i>W. N. W.</i>	5 $\frac{1}{4}$	59	3	45	<i>E. S. E.</i>	<i>W. S. W.</i>
		5 $\frac{1}{2}$	61	52	30		
		5 $\frac{3}{4}$	64	41	15		
		6	67	30	0		
<i>E. by N.</i>	<i>W. by N.</i>	6 $\frac{1}{4}$	70	18	45	<i>E. by S.</i>	<i>W. by S.</i>
		6 $\frac{1}{2}$	73	7	30		
		6 $\frac{3}{4}$	75	56	15		
		7	78	45	0		
<i>East</i>	<i>West</i>	7 $\frac{1}{4}$	81	33	45	<i>East</i>	<i>West</i>
		7 $\frac{1}{2}$	84	22	30		
		7 $\frac{3}{4}$	87	11	15		
		8	90	0	0		

**F I N I S.**

$$\begin{array}{r} 5 \\ \hline 13 \\ \hline 1999 \end{array}$$



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